Doctorate Recipients from U.S. Universities

Summary Report 2007–08















SPECIAL REPORT

Division of Science Resources Statistics

Directorate for Social, Behavioral, and Economic Sciences

Doctorate Recipients from U.S. Universities: Summary Report 2007–08

Special Report

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DECEMBER 2009

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Preface

his year's edition of the Summary Report from the Survey of Earned Doctorates (SED) reflects six changes from previous editions.

Multiple Year Format. Both 2007 and 2008 data are presented in this report to expedite release of 2 years of data. Only a few 2007 SED data tables could be released in 2008, pending development of new data protection procedures. The full complement of 2007 SED data tables is released in a special section in this report, without accompanying discussion. The narrative section of the report discusses the results of the 2008 SED, with figures and 2008 summary and detailed data tables. Future editions of the SED Summary Report will return to a single-year format.

Report Organization. The current-year summary and detailed data tables now follow the body of the report. The 2007 data supplement follows the current-year data tables. Locating all data tables together should make it easier for readers to find the data they want. Appendix A now provides the technical notes and includes information for both the 2007 and 2008 SED cycles. Appendix B includes the questionnaires for both survey years.

New Disclosure Protection Procedure. A new disclosure protection procedure has been applied to detailed data tables 36 and 37 (formerly appendix tables A-1 and A-2), resulting in minor revisions to the tables. In a series of outreach meetings held late in 2008, representatives of the SED data user community provided important insights that shaped the design of this new procedure. See "Disclosure Protection," appendix A, for further detail.

Reporting of Citizenship Status. In past editions of the Summary Report, tables reporting citizenship status have displayed U.S. citizens, permanent residents, and temporary visa holders as separate citizenship categories. Beginning with this year's edition only two citizenship categories will be reported, and the data of U.S. citizen doctorate recipients will be combined with that of permanent resident doctorate recipients.

New Race Category. Respondents to the SED who indicated more than one race will now be reported in a separate "multi-race" category in all Summary Report tables reporting race/ethnicity data. In previous Summary Reports these respondents had been grouped into the "Other/Unknown" race/ethnicity category.

New Publisher. The SED Summary Report is now published by the National Science Foundation on behalf of the other federal sponsors. Previous Summary Reports had been published by the SED survey contractor.

Acknowledgments

The conduct of the Survey of Earned Doctorates (SED), the maintenance of the SED, and resulting publications are funded jointly by the National Science Foundation (NSF), National Institutes of Health (NIH), U.S. Department of Education (USED), National Endowment for the Humanities (NEH), U.S. Department of Agriculture (USDA), and National Aeronautics and Space Administration (NASA). These federal agencies gratefully acknowledge the support and assistance of graduate deans and their staff, registrars, dissertation officers, and other administrators who participate in the SED effort and contribute to its success. Heartfelt thanks are extended to the new research doctorate recipients who completed the 2008 survey.

Representatives from the six sponsoring agencies provided constructive reviews of the survey design and analysis.

Jennifer Sutton (NIH), Nancy Borkow (USED), Frank Shaw

(NEH), Greg Smith (USDA), Mabel Matthews (NASA) and Mark Fiegener, SED Project Manager (NSF, Division of Science Resources Statistics), who also oversaw the preparation of this report. Nancy Leach, Mary Frase, and Stephen Cohen at NSF/SRS provided additional review and comment. Reviewers Nathan Bell (Council of Graduate Schools), Ralph Ferguson (Texas Tech University), and Suzanne Ortega (University of New Mexico) provided valuable comments.

Staff at the National Opinion Research Center (NORC) conduct survey operations for the SED and prepared this report. NORC staff who have played a valuable role in the SED are Syed Ahsan, Mireya Dominguez, Brianna Groenhout, Tom Hoffer, Lino Jimenez, Sharnia Lashley, Mary Ann Latter, Lindsay Virost, Kristy Webber, Vincent Welch Jr., and Mary Hess.

Introduction

octorate Recipients from U.S. Universities: Summary Report 2007–08 is the 41st in a series of reports on research doctorates awarded by universities in the United States. Data presented in this report were collected by the Survey of Earned Doctorates (SED). The SED has been conducted annually since 1957 and is sponsored by six federal agencies: the National Science Foundation (NSF), National Institutes of Health (NIH), U.S. Department of Education (USED), U.S. Department of Agriculture (USDA), National Endowment for the Humanities (NEH), and National Aeronautics and Space Administration (NASA).

The SED is a census of all individuals who receive a research doctorate from a U.S. academic institution in a given academic year (1 July through 30 June of the following year). This report presents data from the 2007 and 2008 SED. The 2008 census covered 48,802 individuals who earned research doctorates in the academic year ending June 2008; the 2007 census covered 48,112 individuals who earned research doctorates in the academic year ending June 2007.

All survey responses become part of the Doctorate Records File (DRF), a cumulative database on research doctorate recipients from 1920 to 2008. The DRF now contains 1,745,673 records of research doctoral degrees earned over the last 89 years at U.S. institutions.

Organization of the Report

The body of this report discusses the results of the 2008 SED, beginning with a summary of key findings. Trends in the numbers and percentages of doctorate recipients through 2008 are reported by the broad fields in which doctorate recipients earn their degrees, and by sex, race/ethnicity, and citizenship. Cross-sectional data on the educational pathways that

doctorate recipients take to the research doctorate are reported for the 2008 cohort, as well as data on the average amount of time taken to complete the doctoral degree, doctorate recipients reporting disabilities, sources of financial support during graduate school, and the postgraduation status and plans of doctorate recipients.

The data tables follow the main text, beginning with summary data tables for 2008 (tables 1–35), which display the numbers and percentages from which the figures and the numbers cited in the text are drawn. Detailed data tables for 2008 research doctorate recipients (tables 36-46) and for the previous 10-year period (1998–2008, tables 47–50) follow the summary 2008 data tables.

Data collected by the 2007 SED are presented as a data supplement without accompanying narrative. These supplementary summary and detailed data tables follow the 2008 tables.

Appendix A supplies technical notes, including field of study classifications, research degree titles included in the SED, response rates, and other information related to data collection and tables and figures in the report. Appendix B contains the SED questionnaires for the 2007 and 2008 academic years.

Data Availability and Related Publications

This report is available on the Web at http://www.nsf.gov/ statistics/doctorates/. The 2007 and 2008 data tables are available for download in Excel and PDF file formats.

NSF publishes data from the SED annually in the Science and Engineering Doctorate Awards series of detailed statistical tables and in InfoBriefs and Special Reports that focus on selected topics. These reports, the annual Summary Report from recent years, SED questionnaires, and information on SED methodology are also online at http://www.nsf.gov/ statistics/doctorates/.

A set of detailed statistical tables that reports national-level counts of doctorate recipients by fine field of doctorate, sex,

¹ The SED collects information on research doctorate recipients only. This survey differs from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS), which collects the number of doctoral degrees awarded per institution by field of study. For an evaluation of the differences, see National Science Foundation, 1993, Science and Engineering Doctorates: 1960-1991, NSF 93-301, pp. 2-6, Washington, DC.

and race/ethnicity for U.S. citizens and permanent residents—formerly available through the survey contractor—will also be published by NSF. These will be available on the Web beginning early 2010.

SED data are also included in the series *Science and Engineering Degrees* and *Science and Engineering Degrees by Race/Ethnicity of Recipients; Science and Engineering Indicators;* and *Women, Minorities, and Persons with Disabilities in Science and Engineering.*Survey data from earlier years of the SED are published in the Special Report *U.S. Doctorates in the 20th Century* (NSF 06-319), which provides an overview of the development of the American system of doctoral education from 1900 to 1999. All of these publications are available online at http://www.nsf.gov/statistics/. SED data are also included

in *Science and Engineering Doctorates: 1960–91* (NSF 93-301). This publication is out of print, but tables from it are available on request.

Access to restricted data for researchers interested in analyzing microdata can be arranged through a licensing agreement (http://www.nsf.gov/statistics/database.cfm#MICRODATA).

The SED is conducted by the National Opinion Research Center (NORC) under contract to NSF. The survey contractor can produce on-demand tabulations of the SED data (at cost), customized to the data requester's research specifications. For more information on additional sources of SED data, please contact the SED project officer, Mark Fiegener (mfiegene@nsf.gov; 703-292-4622).

Key Findings: 2008

Trends in the Numbers of New Research **Doctorate Recipients**

- The 48,802 research doctorates awarded in 2008 is the highest number in the history of U.S. higher education, but growth rates have slowed in recent years (table 1).
- Life sciences accounted for 11,088 research doctorates awarded in 2008, the largest number by broad field (table 5).
- Women received 46% of all research doctorates awarded in 2008, the 13th consecutive year in which women received more than 40% of doctorates awarded (table 7).
- A total of 6,981 U.S. citizens and permanent residents who are members of racial/ethnic minority groups were awarded research doctorates in 2008-23% of the U.S. citizens and permanent residents who earned research doctorates and reported race/ethnicity (table 8).
- Asians earned 2,543 research doctorates in 2008, more than members of any other U.S. racial/ethnic minority group (table 8).
- Of graduates with known citizenship status, 67% were U.S. citizens or permanent residents and 33% were non-U.S. citizen temporary visa holders (table 11).
- China (including Hong Kong) was the country of origin for the largest number of non-U.S. graduates in 2008, with 4,526 (table 12).
- The median total time span from baccalaureate to doctorate among graduates was 9.4 years; median duration between starting and completing graduate school was 7.7 years (table 18).

Financial Resources and Indebtedness

- Three fourths of graduates reported teaching assistantships, research assistantships/traineeships, and fellowships/grants to be their primary source of support during graduate school (table 22).
- Just over half (53%) of graduates reported having no graduate or undergraduate education-related debt, 19% reported cumulative debt of \$20,000 or less, and 8% reported debt over \$70,000 (table 23).

Postgraduation Plans, Employment, and Location

- Sixty-nine percent of graduates reported having definite postgraduation plans (table 27). Of those, 64% planned to work and 36% planned postdoctoral study, predominately in the broad fields of life sciences and physical sciences (table 28).
- Of the graduates with firm commitments for U.S. employment, 51% planned to work in academe, 27% planned to work in industry or be self-employed, and 6% planned to work in government (table 29).

Trends among Doctorate Recipients

Individual research doctorate recipients from U.S. universities are the primary respondents to the Survey of Earned Doctorates.² Throughout this report, the terms "doctorate" and "doctoral degree" are used to represent any of the research doctoral degrees covered by the survey.

Overall Trends and Rates of Change

During the 12-month period ending 30 June 2008, U.S. universities awarded 48,802 research doctoral degrees, compared with 48,112 in 2007 and 45,615 in 2006 (table 1). Although the 2008 total is the largest number of research doctorates awarded in the history of U.S. higher education, the rate of increase over 2007 was small, 1.4% (figure 1).

The long-term trend in the number of new research doctorates is characterized by considerable growth. Since the SED began in 1957, the number of doctorates granted by U.S. universities has, on average, increased by about 3.5% per year. Between 1961—when the number of annual doctorates awarded surpassed 10,000 for the first time—and 1971, the number of doctorates awarded grew at an average annual rate of nearly 12%, and the total almost tripled (31,867). From 1972 to 1985 the growth rate slowed, then declined, and the number of doctorates awarded annually stabilized at about 31,000. In 1986, a second period of growth began that persisted until 1998, when 42,638 research doctorates were awarded. From 1998 to 2002, the number of doctorates awarded fluctuated, reaching a low point in 2002. Growth resumed from 2003 to 2008, leading to an all-time high in 2008 for number of doctorates earned (figure 2, table 1).

Doctorate-Granting Institutions

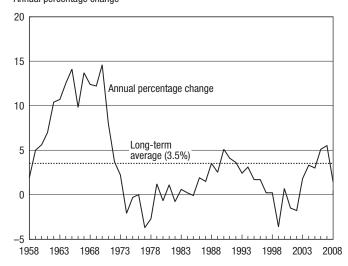
The SED project closely monitors the universe of institutions that grant research doctorates, and it annually reviews all accredited institutions recognized by the U.S. Department of Education in its Integrated Postsecondary Education Data System (IPEDS). The data-collection contractor for the SED contacts newly identified institutions, determines whether those institutions grant research doctorates (see appendix A), and adds institutions to the SED universe when they award a qualifying degree. Detailed data tables 45a and 45b display the full list of institutions that granted research doctorates in 2008.

During the 2008 academic year, there were 421 universities in the United States and Puerto Rico that awarded at least one research doctorate. The mean number of doctorates awarded per institution was 116, and the median was 43 (table 2). As the substantial difference between the mean and the median indicates, a relatively small number of institutions award a disproportionately large number of doctorates. The top 10% of institutions granted nearly half (46%) of all doctorates in 2008, and institutions in the 80th to 89th percentiles accounted for more than one fifth (22%) (figure 3).

The trend data in table 2 show that the median number of degrees awarded per institution grew rapidly during the late

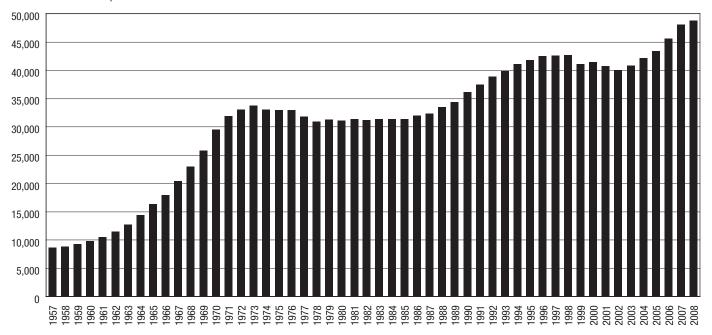
FIGURE 1. Annual rate of change in doctorates awarded by U.S. colleges and universities: 1958–2008

Annual percentage change



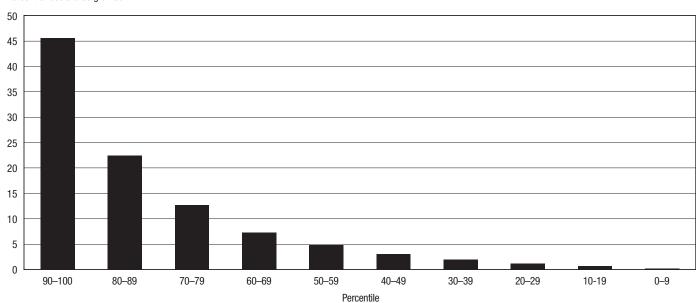
² Doctorates are reported by academic year (from 1 July of one year through 30 June of the following year) and include research doctorates in all fields. Research doctoral programs are oriented toward preparing students to make original intellectual contributions in a field of study and typically entail the completion of a dissertation. Doctoral degrees, such as the PhD, DSc, and research EdD, are covered by this survey; professional degrees (e.g., MD, DDS, DVM, JD, PsyD, DMin) are not. A full list of included degrees is in appendix A. Before 2001, the SED covered only the first research doctorate earned. Since then, the SED has also covered the second research doctorate. In 2008, a total of 109 individuals earned a second research doctorate.

FIGURE 2. Doctorates awarded by U.S. colleges and universities: 1957–2008 Number of doctorate recipients



See Table 1.
SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

FIGURE 3. Doctorates granted, by percentile of doctorate-awarding institutions: 2008 Percent of doctorates granted



1960s, from 43 in 1968 to 55 in 1970. Following the end of the Vietnam War in 1972 and the enrollment boosts that accompanied the availability of student deferments from military service, the median number quickly dropped to 42 in 1973 and has vacillated between 35 and 46 since.

In 2008 the University of California-Berkeley granted the largest number of doctorates, 856, or 2% of all doctorates awarded that year, followed by the University of Texas-Austin (821), the University of Wisconsin-Madison (740), the University of Illinois-Urbana-Champaign (735), and the University of California-Los Angeles (724). In 2008 (as has been the case for the past several years), the 10 institutions awarding the highest number of doctoral degrees granted approximately 15% of all doctorates (table 3, detailed data tables 45a, 45b).

Among the states, California universities led the nation by awarding 5,925 doctorates, or 12% of all doctorates in 2008 (figure 4, table 4). New York institutions followed with 3,986, then Texas (3,384), Massachusetts (2,591), Pennsylvania (2,463), Illinois (2,362), Florida (2,018), Ohio (1,921), and Michigan (1,599). These nine states accounted for 54% of all doctorates awarded in 2008.

Field of Study

There were 292 fields of specialization into which the SED classified research doctoral degrees in 2008 (listed in the SED questionnaire, appendix B). Because fields of specialization are dynamic entities that reflect the evolving programs of researchers and their constituencies, the SED list is assessed periodically to identify emerging fields and is modified, as needed, to accommodate changes in the world of doctoral education.

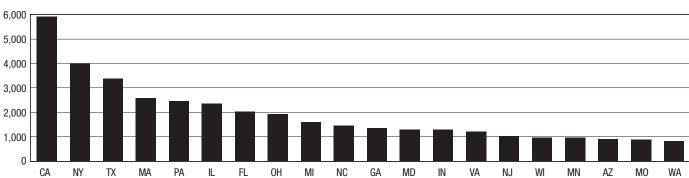
Consistent with past practice in presenting the SED data, the fields of specialization are grouped into seven broad

fields: life sciences (including agricultural sciences/ natural resources, biological/biomedical sciences, and health sciences), physical sciences (including mathematics and computer and information sciences), social sciences (including psychology), engineering, education, humanities, and a heterogeneous group classified as other fields (including business, communication, social work, and theological programs). Detailed data tables 36, 37, and 47 report numbers of doctorate recipients by field of specialization.

The institutions that in 2008 granted the largest numbers of doctorates in each of the seven broad fields are listed in table 3. The Johns Hopkins University led all universities in life sciences (235), the University of California-Berkeley granted the most doctorates in the physical (192) and social sciences (159), and the Georgia Institute of Technology granted the most engineering doctorates (319). Teachers College of Columbia University led all universities in education doctorates awarded (154), Harvard had the highest total in the humanities (138), and the University of Texas-Austin granted the most doctorates in the diverse "other fields" category (70).

The numbers of doctorates awarded in the seven broad fields were also concentrated in a relatively small number of institutions. The 10 institutions that granted the largest number of doctorates awarded 15% of all doctorates in 2008, but the concentration was higher in five of the seven broad fields: 27% in engineering, 22% in humanities, and 18% in life sciences, physical sciences, and other fields (table 3).

The slight overall increase of 1.4% in doctorates awarded between the 2007 and 2008 academic years was a result of increases in five of the seven broad fields: life sciences and social sciences were each up 4%, education and engineering by 2% each, and physical sciences by 1%. The increases in



State

Number of doctorates

FIGURE 4. Top 20 doctorate-granting states: 2008

those fields were partially offset by a decrease in humanities (8%) and other fields (2%) (detailed data table 47).

Since 1990 life sciences has been the largest broad field, and 11,088 doctorates were awarded in 2008. Over the 5-year period 2003–08, the number of doctorates awarded in engineering, physical sciences, and life sciences have shown the largest increases: 49%, 39%, and 30%, respectively (table 5). Doctorate completions in education and humanities were slightly lower just under 1% and 9% fewer degrees awarded, respectively, in 2008 than were awarded 5 years earlier (figures 5, 6; table 5).

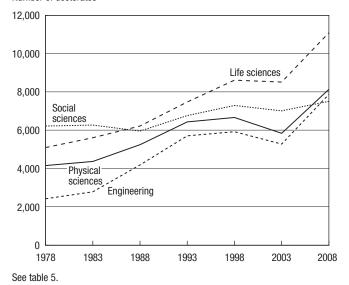
Life sciences, physical sciences, social sciences, and engineering—the four broad fields that together constitute "science and engineering" (S&E)—represented 71% of all doctorates awarded in 2008. S&E doctorates accounted for 67% of all doctorates in 1998, 65% of the total in 1988, and 58% in 1978 (table 5).

The 30-year comparisons for all seven broad fields are shown in figure 7. The relative shares of graduates in life sciences, physical sciences, and engineering were greater in 2008 than in 1978, relative shares of graduates in social sciences. humanities, and education were smaller, and relative shares of graduates in other fields in 1978 and 2008 were about the same (figure 7). At the major field level, biological/biomedical sciences (within life sciences), computer and information sciences (within physical sciences), and electrical and related engineering were the fields that showed the greatest increase in their relative share over the past 30 years (5 percentage points for biological sciences, and 3 percentage points for computer and information science and electrical and related engineering). Education research showed the greatest decline in relative share, down 5 percentage points in 2008 as compared with 1978 (table 5).

The numbers of doctorate recipients in the largest subfields within the seven broad fields are shown in table 5. The main fields of growth within life sciences were health sciences, which grew from 512 doctorate recipients in 1978 to 2,094 in 2008, and biological/biomedical sciences, which grew from 3,516 to 7,793. Within these two subfields, the fine fields that increased the most over the past decade are epidemiology, genetics/genomics, and neurosciences.

In physical sciences, the most growth occurred in computer and information sciences, increasing from 121 doctorate recipients in 1978 to 1,786 in 2008. The largest growth in social sciences was in the diverse "other social sciences" subfield. Within this subfield, the fine fields of geography, area/ethnic/ cultural/gender studies, and public policy analysis experienced the most growth over the past decade (detailed data table 47).

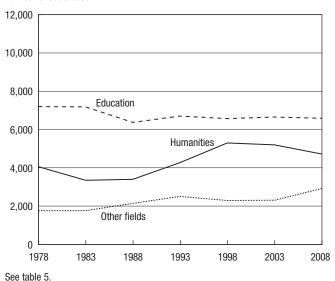
FIGURE 5. Science and engineering doctorates awarded, by broad field of study: Selected years, 1978-2008 Number of doctorates



SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

FIGURE 6. Doctorates awarded in education, humanities, and other fields: Selected years, 1978-2008

Number of doctorates



SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

In the broad field of engineering, electrical and related engineering showed considerable growth. Nearly one-third of the total increase in engineering doctorate recipients from 1978 to 2008 was in this field, which increased from 539 in 1978 to 2,299 in 2008. The subfield of industrial engineering showed the greatest growth during this 30-year period; however, the absolute numbers for this field are still relatively small (281 in 2008).

The numbers of new doctorate recipients increased in two of the three broad non-S&E fields (humanities and other fields); however, there was a decrease in the proportion of the cohort that earned doctoral degrees in humanities. The largest growth in humanities subfields was in "other humanities." The detailed field totals in detailed data table 47 indicate that, over the past decade, the other humanities fields with increasing numbers of doctorate recipients included American/U.S. studies, archaeology, and religion/religious studies. Within other fields, the largest growth was seen in the subfield of business and management, from 713 in 1978 to 1,437 in 2008.

The numbers of doctorates awarded in education dropped over the 30-year period. The only subfield within education that showed growth from 1978 to 2008 was education administration, from 1,455 doctorates to 2,248 (table 5, detailed data table 47).

Demographic Characteristics

Sex

In 2008, the number of doctorates awarded to men rose by 95 over the previous year, and doctorates awarded to women rose by 612 (figure 8; detailed data tables 49, 50). Women's share of all doctorates earned in 2008 was 46%, similar to that in 2007 (table 6). 2008 was the 13th consecutive year in which the representation of female doctorate recipients has surpassed 40%. Women constituted 45% of all doctorate recipients in 2003, 42% in 1998, and 27% in 1978 (table 6).

The proportion of doctorates earned by women has also grown consistently within all of the broad fields of study. Women constituted over two thirds (67%) of all education doctorate recipients for 2008 and were the majority in social sciences (58%), life sciences (53%), and humanities (52%). The representation of women among doctorate recipients in physical sciences and engineering for 2008 was 28% and 22%, respectively (figure 9). However, these percentages represent significant increases over the last 30 years. In 1978, when 27% of all doctorate recipients were women, 10% of the doctorates in physical sciences and 2% in engineering were awarded to women. Less dramatic but similar long-term trends are discernible in other broad fields as well. Between 1978 and 2008 the proportion of female doctorate recipients increased from 23% to 53% in the life sciences, from 31% to 58% in the social sciences, and from 38% to 52% in humanities fields (figure 9, table 6).

In 2008 women constituted 41% of S&E doctorate recipients and 58% of those earning doctorates in non-S&E fields. Of the major fields that evidenced greater than 60% growth in the proportion of women over the past decade, all were in engineering (table 7). The largest growth in the share of female doctorate recipients from 1998 to 2008 was observed in other engineering (80%), electrical and related engineering (72%), industrial engineering (63%), and aerospace/aeronautical engineering (63%)

Race/Ethnicity of U.S. Citizens and Permanent Residents

A total of 6,981 U.S. citizens and permanent residents who are members of racial/ethnic minority groups were awarded

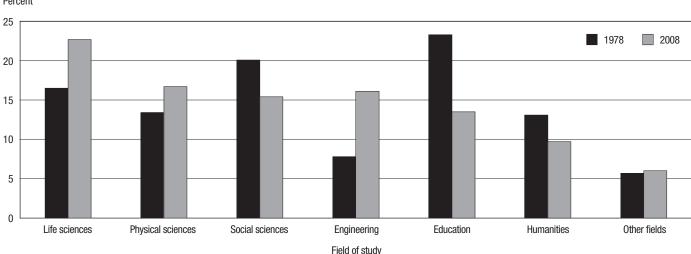


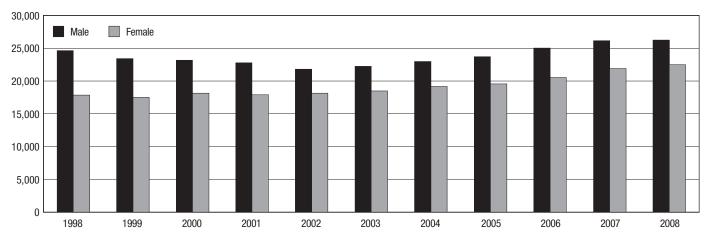
FIGURE 7. Percentage distribution of doctorate recipients, by broad field of study: 1978 and 2008 Percent

doctorates in 2008, 23% of the U.S. citizens and permanent residents who earned research doctorates and reported race/ ethnicity (table 8).3 (In this report, American Indians, Asians, blacks, Hispanics, Native Hawaiians, and individuals who reported more than one race are considered to be minority racial/ethnic groups). This number is higher than in 2007, when 6,587 minority group members earned research doctorates (22% of the total) (detailed data table 48).

Among U.S. citizens and permanent residents who reported race/ethnicity, Asians earned the most doctorates (2,543)

of the minority groups in 2008, followed by blacks (2,030), Hispanics (1,765), persons of multiple race (520), American Indians (123), and Native Hawaiians (96). A total of 249 U.S. citizens reported that they were not Hispanic but did not report their racial background in the 2008 survey. These individuals are not counted here as racial/ethnic minorities. They

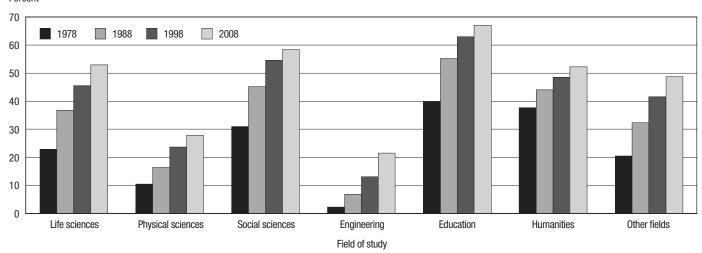
FIGURE 8. Doctorate recipients, by sex: 1998-2008 Number of doctorates



See tables 49 and 50.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

FIGURE 9. Female doctorate recipients, by broad field of study: Selected years, 1978–2008 Percent



See table 6.

³ American Indians or Alaska Natives are referred to as American Indians in this report, blacks or African Americans are referred to as blacks, and Native Hawaiians or Other Pacific Islanders are referred to as Native Hawaiians.

and the Native Hawaiians are grouped in the "other" category and are not shown separately in table 8 or figure 10.4

The number of minority doctorate recipients among U.S. citizens and permanent residents in 2008 was 21% higher than the total in 2003 and 19% higher than in 1998. Doctorate production among non-Hispanic whites showed a more modest increase (7%) from 2003 to 2008 and decreased by 4% from 1998 to 2008.

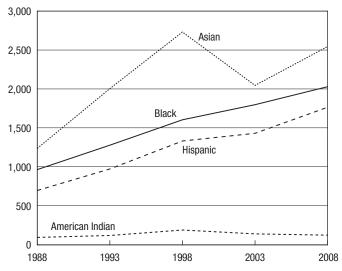
Although rates of change have varied between 1988 and 2008, the historical trend has been growth in the number of doctorates awarded to racial/ethnic minorities throughout the entire 20-year period. The 20-year increases were greater for Hispanics (154%), than for blacks (110%), Asians (106%), and American Indians (31%) (figures 10, 11; table 8).

Minority group members were most highly represented in 2008 in the broad fields of engineering (27% of U.S. citizens and permanent residents earning doctorates), education (26%), and other fields (26%). The lowest percentages of minorities were in humanities (18%) and physical sciences (20%) (figure 12). The proportional representation of the different minority groups varied by broad field. Asians were the largest contingent in engineering, physical sciences, and life sciences, representing 62%, 54%, and 47%, respectively, of all minority group members earning doctorates in those broad fields during the 2008 academic year. Blacks were the largest minority population in education (53%) and other fields (44%), and Hispanics were the largest minority population in social sciences (34%) and humanities (32%). This pattern of relative representation has been consistently observed since 1988, except in the social sciences and other fields (table 8). (See table 9 for the numbers of minority doctorate recipients in each of the 25 subfields in 2008.)

The pattern of growth for the aggregate U.S. citizen and permanent resident minority populations also held for most of the separate minority groups within most of the seven broad fields of study from 1988 to 2008. The general pattern for minority recipients has been one of increases from 1988 to 2008. Within the broad fields of study, however, there were some noteworthy trends. One was that the number of American Indian doctorate recipients fell in

FIGURE 10. Doctorates awarded to U.S. citizen and permanent resident racial/ethnic minorities, by selected race/ethnicity: Selected years, 1988-2008

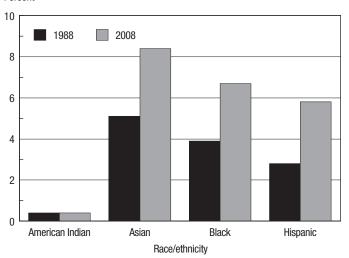
Number of doctorates



See table 8.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

FIGURE 11. Doctorates earned by U.S. citizen and permanent resident racial/ethnic minorities, by selected race/ethnicity: 1988 and 2008 Percent



See table 8.

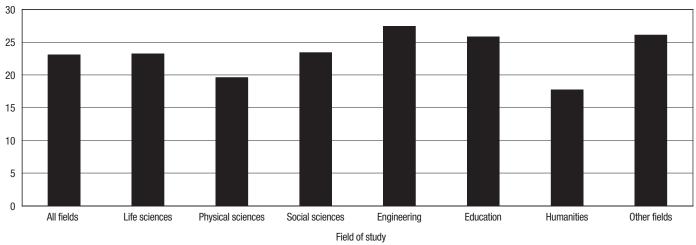
⁴ Following the federal standards established for the 2000 decennial census of the U.S. population, the SED changed the way in which race and ethnicity were requested starting with the 2001 questionnaire. The new format asked respondents to mark one or more racial categories that apply to them, rather than a single category as had been requested since 1974, when race and ethnicity questions were first added to the SED questionnaire. Additional changes included separating Pacific Islanders from Asians and creating a new category, Native Hawaiians or Other Pacific Islanders, and adding a Cuban response option to the Hispanic ethnicity question. The 2008 SED questionnaire is provided in appendix B.

every broad field but the life sciences in 2008 relative to 1998.5 Moreover, increases in black and Hispanic representation within the life sciences have been especially large over the past decade (table 8).

Among U.S. citizens and permanent residents, the balance of male and female doctorate recipients in 2008 varied among racial/ethnic groups. Just over half (51%) of doctorates earned by whites were awarded to women. For the third straight year, women were the majority doctorate recipients in all U.S. citizen and permanent resident minority populations: 64% of blacks, 58% of Hispanics, 59% of American Indians, 55% of Asians, and 55% of multiracial doctorate recipients (figure 13; detailed data tables 48-50).

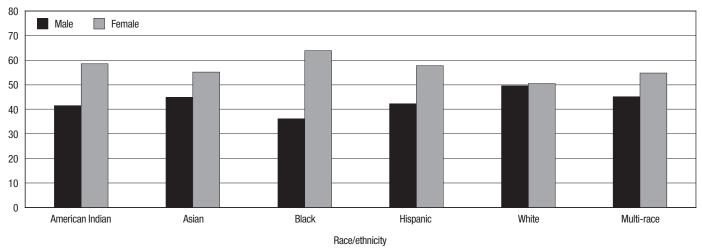
Table 10 lists the universities that awarded the largest number of doctorates to members of minority racial/ethnic groups

FIGURE 12. Doctorates earned by U.S. citizen and permanent resident racial/ethnic minorities, by broad field of study: 2008 Percent



See table 8. SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

FIGURE 13. Distribution of doctorates earned by male and female U.S. citizens and permanent residents, by race/ethnicity: 2008 Percent



See tables 49 and 50.

⁵ The decline in the number of doctorate recipients identifying themselves as American Indians on the SED questionnaire may be related in part to the introduction in the 2001 questionnaire of the option to select one or more racial categories. Of the 520 non-Hispanic U.S. citizen and permanent resident respondents indicating more than one race in 2008, 201 selected American Indian/Alaska Native as one of their races. However, there were declines in the number of American Indian doctorate recipients both before (1999-2000) and after (2002-06) the introduction of the revised item; see detailed data table 48.

between 2004 and 2008 and the number of doctorates granted by each university. Over that interval, five institutions—University of California-Los Angeles, University of California-Berkeley, Stanford University, University of Southern California, and Harvard—awarded a total of 1,860 doctorates to Asians, or 16% of all doctorates awarded by U.S. universities to Asians. Howard University awarded, by far, the most doctorates to blacks (334), followed by Nova Southeastern University (170). These two institutions granted 5% of all the doctorates awarded to blacks over this period. The leading institutions awarding doctorates to Hispanics were the University of Puerto Rico-Rio Piedras, University of California-Los Angeles, University of California-Berkeley, and the University of Texas-Austin. Oklahoma State University awarded the largest number of doctorates to American Indians (30) and University of California-Berkeley awarded the most doctorates to multiracial graduates (88).

The concentration of minority doctorate recipients in certain institutions is noticeably greater than for the doctoral population as a whole. Over the 2004–08 period the 10 universities granting the largest numbers of doctorates to all doctorate recipients conferred 15% of all doctoral degrees. However, over the same time period, the 10 universities that awarded the most doctorates to Asians granted 25% of all Asian doctorates; for blacks the corresponding figure was 16%; for Hispanics it was 21%; for American Indians it was 24%; and for multiracial doctorate recipients it was 22% (table 10).

Citizenship

Each year, the SED gathers information concerning the U.S. citizenship status and country of citizenship of the new doctorate recipients at the time of graduation. Of the 2008 doctorate recipients with known citizenship status (94% of the total), 67% were U.S. citizens or permanent residents (i.e., "green card" holders), and 33% were non-U.S. citizen temporary visa holders (table 11).

The proportion of non-U.S. citizen temporary visa holders earning doctorates from U.S. institutions has increased over time. The 5-year snapshots shown in table 11 indicate that the percentage of new doctorates awarded to individuals on temporary visas rose from 12% of all doctorate recipients who reported citizenship in 1978 to 33% in 2008. The growing numbers of doctorates awarded to foreign students on temporary visas has accounted for the majority of the overall growth in the number of doctorate recipients since 1978.

U.S. citizens and permanent residents earned more than threefourths of the doctorates awarded in social sciences, education, and humanities (77%, 91%, and 84% of those reporting citizenship status, respectively), as well as about two-thirds of the doctorates awarded in life sciences and other fields (69% and 64%, respectively) in 2008 (table 11). Temporary visa holders earned the majority of doctorates awarded in engineering (60%) and just under one-half (48%) of the doctorates awarded in physical sciences. In absolute numbers, U.S. citizens and permanent residents earned more doctorates in life sciences than in any of the other broad fields, whereas engineering was the most prevalent broad field of degree for those in the United States on temporary visas.

The trend toward increasing female representation in the doctoral cohorts is particularly striking for U.S. citizens and permanent residents. In 2008, 52% of all doctorates awarded to U.S. citizens and permanent residents went to women. This marks the sixth consecutive year in which the majority of U.S. citizens and permanent residents receiving research doctorates were women (detailed data tables 48, 50).

In contrast, among those doctorate recipients holding temporary visas, 35% were women. That percentage is, like the figure for U.S. women, near an all-time high (detailed data tables 48, 50).

Women holding temporary visas were more concentrated in S&E fields of study than were female U.S. citizens and permanent residents. Women holding temporary visas represented 23% of all female doctorate recipients in 2008, but they earned 28% of the doctorates granted to women in life sciences, 41% of the doctorates earned by women in physical sciences, and 50% of the doctorates earned by women in engineering (detailed data tables 38, 39).

In 2008, 4,526 doctorate recipients were citizens of China (including Hong Kong), representing 10% of the total number of degrees awarded to individuals who reported citizenship (table 12). The lists of top 15 countries in terms of the number of doctorates awarded to non-U.S. citizens were similar in 2007 and 2008, although some rankings changed. Romania and Iran, among the top 15 countries in 2007, were replaced by Italy and Colombia in 2008. The leading five countries (China, India, Korea, Taiwan, and Turkey) accounted for 21% of all doctorates awarded by U.S. universities to individuals of known citizenship in 2008. This list has been relatively stable over the past 10 years, with China, India, Korea and Taiwan making up the top four every year. However, beginning with 2007, Turkey replaced Canada as the fifth largest country, and it maintained that position in 2008. Thirty percent of all 2008 doctorate recipients who reported citizenship were from the 40 nations listed in table 12.

The 20 institutions awarding the largest numbers of doctorates to temporary visa holders in 2008 are listed in table 13. The University of Illinois at Urbana-Champaign awarded the largest number of doctorates to temporary visa holders (374).

Parental Education Background

Since 1963, the SED has asked new doctorate recipients to report their fathers' and mothers' highest level of educational attainment. As was the case in previous Summary Reports, responses are grouped into four categories; high school diploma or less, some college, baccalaureate degree, and advanced degree, including a master's, doctorate, or professional degree.6

Doctorate recipients' fathers and mothers differed in educational attainment at the highest and lowest ends of the spectrum but were quite similar in terms of earning a bachelor's degree and completing some college. The 2008 data indicate that 27% of recipients' fathers had earned no more than a high school diploma; the corresponding figure for their mothers was 35% (table 14). Fourteen percent of doctorate recipients had a father who had attended college but did not attain a baccalaureate degree; 17% of the mothers of doctorate recipients in 2008 achieved this level of education. Over one-fourth (26%) of doctorate recipients indicated that their fathers earned a baccalaureate degree; the percentage whose mother earned a baccalaureate degree was also 26%. At the upper end of the parental-education range, over one third (34%) of doctorate recipients' fathers held an advanced degree, compared with the 23% whose mothers had an advanced degree.

Male and female doctorate recipients showed some differences in their parents' educational backgrounds. Female doctorate recipients tended to report higher educational attainment for their mothers than did their male counterparts. Specifically, 24% of women, compared with 22% of men, reported that their mothers attained an advanced degree, whereas 32% of women, compared with 37% of men, reported that their mothers attained no more than a high school diploma. The reported educational backgrounds of fathers differed little between male and female doctorate recipients.

There is considerable variation in parental education attainment by race/ethnicity, citizenship status, and broad field of study. Among U.S. citizens and permanent residents, Asian, white, and multiracial doctorate recipients were more likely than members of other racial/ethnic groups to come from families in which one or both parents attained at least a

baccalaureate degree. Black, Hispanic, and American Indian recipients' parents were less likely to have gone beyond high school and were far less likely than parents of white, Asian, and multiracial recipients to have attained a baccalaureate or advanced degree. Doctorate recipients who were U.S. citizens or permanent residents were more likely than those holding temporary visas to report that their mothers attained at least a baccalaureate degree (52% and 41%, respectively). Similarly, U.S. citizens and permanent residents were more likely to report that their fathers attained at least a baccalaureate degree (61%) than were non-U.S. citizens who held a temporary visa (57%).

The distributions of parental education by the broad fields in table 14 reflect, in part, the different racial/ethnic and citizenship compositions of the fields. Doctorate recipients in humanities displayed the highest percentages of both mothers (65%) and fathers (55%) with at least a baccalaureate degree. The lowest percentages of baccalaureate or higher degrees achieved by fathers or mothers were reported by doctorate recipients in the broad field of education (43% for fathers and 35% for mothers). Education also had the highest percentage of parents whose formal education ended at high school or before. The broad field of humanities had the lowest percentage of parents who did not go beyond high school.

Over the past 30 years the overall trend has been toward parents of doctorate recipients being more highly educated (figure 14; table 15). In 1978, 42% of doctorate recipients reported that neither of their parents had attained an education beyond a high school diploma, and about one in five (21%) reported that at least one parent had an advanced degree. By 1993 the proportion of doctorate recipients reporting an advanced degree as highest parental education (33%) surpassed those reporting a high school diploma or less (31%). By 2008 the proportions in the most- and leasteducated groups had almost completely reversed, with 21% of doctorate recipients reporting highest parental education of a high school diploma or less and 40% reporting at least one parent with an advanced degree.

Educational History of Doctorate Recipients

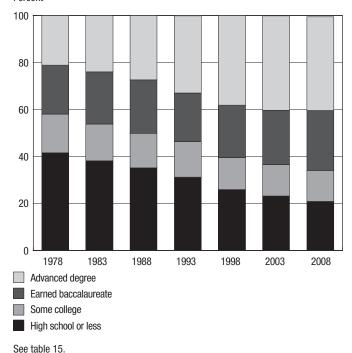
The SED collects information about several aspects of doctorate recipients' educational history that, taken together, provide insight into the educational pathways that students take on the way to earning a research doctoral degree. Since the start of the survey in 1957, the SED has collected detailed information about master's and baccalaureate degrees earned by research doctorate recipients. The SED has also collected information pertaining to additional postsecondary degrees earned, as well as community college enrollments. The SED

⁶ Versions prior to the 2005 Summary Report combined the "some college" and "baccalaureate degree" categories into a single category. The Summary Report 2002 included a special section on first-generation college graduates earning research doctorates, which relied on the respondents' reports of their parents' educations.

questionnaire was modified in 2004 to improve the coverage of master's degree attainments and to ask about community college participation, and this section draws on the data from those enhancements

FIGURE 14. Highest educational attainment of either parent of doctorate recipients: 1978-2008

Percent



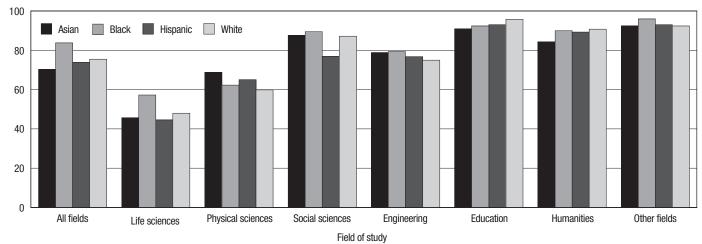
SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

Overall, 73% of all 2008 research doctorate recipients reported earning a master's degree (table 16). However, there is significant variation in reported rates of master's attainment by broad field of doctoral study. Research doctorate recipients in S&E fields were less likely to earn a master's degree than were their counterparts in non-S&E fields. In particular, doctorate recipients in life sciences (51%) and physical sciences (65%) reported attaining a master's degree at lower rates than doctorate recipients in engineering (77%), social sciences (82%), or any of the non-S&E fields: humanities, other fields, and education (85%, 85%, and 89%, respectively).

Men and women attained master's degrees at similar rates (men 72%, women 75%). Temporary visa holders earned master's degrees at a slightly higher rate (80%) than their U.S. citizen and permanent resident counterparts (75%). Among U.S. citizens and permanent residents, master's attainment differed by the doctorate recipients' race/ethnicity (figure 15; table 16). Overall, blacks (84%) and American Indians (83%) reported earning a master's degree at higher rates than reported by multiracial doctorate recipients (75%), whites (75%), and Hispanics (74%). Asians (70%) reported the lowest rate of earning a master's degree. Differences in the racial/ ethnic composition of doctorate fields do not appear to fully account for this observed difference in master's attainment. Blacks reported attaining master's degrees at a higher rate than the other racial/ethnic groups in two of the four S&E broad fields—social sciences and engineering—and attained master's degrees at a higher rate than all but American

FIGURE 15. U.S. citizen and permanent resident doctorate recipients who earned a master's degree, by broad field of doctoral study and selected race/ethnicity: 2008

Percent



See table 16

Indians in the life sciences. In the non-S&E fields, there were no major differences in master's attainment by race/ethnicity.

Overall, about 57% of doctorate recipients reported earning a master's degree that was related to their doctoral degree (i.e., in the same major field of study) (table 16).⁷ The percentage earning a master's in the same field as the doctorate varied significantly by field of doctoral study. The broad fields of life and physical sciences, with the lowest rates of earning a master's degree, also had the lowest proportion of doctorate recipients who earned a related master's degree—36% and 55%, respectively. At least 60% of doctorate recipients in all other broad fields of study reported earning a related master's degree.

In all of the broad S&E fields of study except social sciences, the percentage of temporary visa holders who reported earning a related master's degree was higher than that of their U.S. citizen and permanent resident counterparts. In social sciences, 70% of U.S. citizens and permanent residents reported earning a related master's degree, compared with 66% of temporary visa holders. Within all of the broad non-S&E fields, U.S. citizens and permanent residents reported earning a related master's degree at a higher rate than their temporary visa holder counterparts (table 16).

Overall, 53% of research doctorate recipients earned their baccalaureate degree in the same major field of study as their doctoral degree. However, this percentage varied by broad field of doctoral study. Within the broad S&E fields, the percentage of doctorate recipients whose baccalaureate field was the same as their doctoral field ranged from a high of 77% of engineering doctorate recipients to a low of 48% of life scientists. Physical sciences and social sciences fell between the two with 62% and 53%, respectively (detailed data tables 38, 39). Among the non-S&E fields, 50% of the doctorate recipients in the humanities reported earning a baccalaureate degree in a related field. Doctorate recipients in other fields (34%) and education (32%) were the least likely among all the broad fields of study to earn a baccalaureate degree in the same major field of study as their doctoral degree (detailed data table 40).

Since 2004 the SED has explicitly asked doctorate recipients if they have ever attended a community or junior college (item A14, appendix B). The responses to this item show that the community college system contributes to the education of a non-trivial proportion of research doctorate recipients in all of the broad fields of doctoral study. Overall, 13% of research doctorate recipients indicated that they had attended a community college at some point in their educational history. This percentage varied by broad field of doctoral study, from a high of 22% of doctorate recipients in education to lows of 9% in physical sciences and 7% in engineering (table 17).

U.S. citizens and permanent residents were far more likely than their temporary visa holder counterparts to have attended community college (19% compared with 2%). This relationship held across all broad fields of doctoral study. Among U.S. citizen and permanent resident doctorate recipients, American Indians, multiracial recipients, and Hispanics were more likely to have attended community college (39%, 26%, and 24%, respectively) than were whites, blacks, or Asians (20%, 17%, and 13%, respectively).

Time to Degree

The amount of time needed to complete a doctorate is a key concern for those pursuing the degree, as well as for the faculties and administrations of degree-granting institutions and national public agencies and private organizations that support doctoral study. Time to degree completion is likely to be affected by a number of factors, including individual preferences, economic constraints, labor markets for new doctorate recipients, cultures of the academic disciplines, and institution-specific program characteristics.

The SED measures time to degree three ways: (1) the total time elapsed from completion of the baccalaureate to completion of the doctorate, (2) the total time elapsed from the start of any graduate school to completion of the doctorate, and (3) the age of the doctorate recipient at the time the doctorate is awarded. The median time-to-degree indices vary somewhat by sex, citizenship, and race/ethnicity; however, these differences are generally reflections of the broad field differences.

Baccalaureate to Doctorate

For the 2008 doctorate recipients, the median total time span from baccalaureate to doctorate was 9.4 years (table 18). The median total time span was shortest in physical sciences (7.7 years) and engineering (7.9 years) and longest in education (17.0 years). Large numbers of individuals who earn doctorates in the broad field of education work full time before starting their graduate degree programs and/or continue to work full time while earning their doctorates.

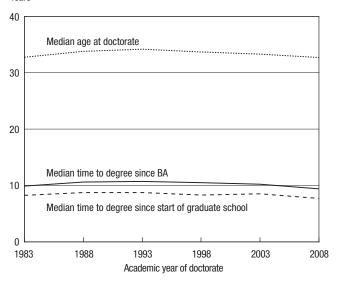
Median total time to degree increased from 1983 to 1993 and has been declining since then. The 2008 median total time to

⁷ Refer to appendix A for details on the aggregation of subfields to determine major field. A related master's degree does not necessarily indicate that the degree was earned as a part of the doctoral program. This report does not differentiate between master's degrees earned as a part of the doctoral program and master's degrees not earned as part of the doctoral program. See item A8 in appendix B for questions pertaining to the master's degree referenced in this report.

degree was about 8 months shorter than in 2003 and about 13 months shorter than in 1998 (figure 16; table 18). However, in 2008 doctorate recipients in all of the broad fields except engineering had the same or longer time to degree than those in 1983.

Across the whole population of new doctorate recipients, women had longer total times to degree than did men, but the

FIGURE 16. Median years to doctorate, from baccalaureate award and from graduate school entry, and age at doctorate: Selected years, 1983-2008



See table 18. SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates. sex differences tend to be smaller, or even reverse, when men and women are compared within specific broad fields (table 19). Similar patterns hold for comparisons of U.S. racial/ ethnic groups, and for U.S. citizens and permanent residents versus temporary visa holders.

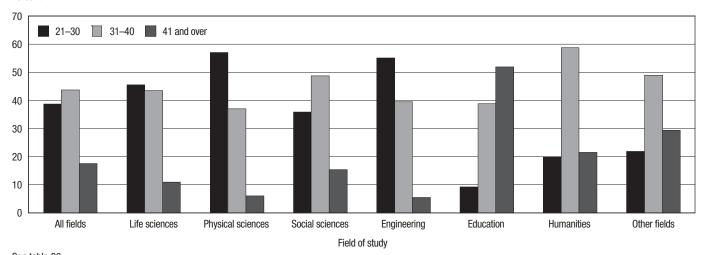
Graduate School to Doctorate

The median duration between starting and completing graduate school was 7.7 years for recipients of doctorates in 2008 (table 18). Graduate-school time to degree was shortest in physical sciences (6.7 years), engineering (6.7 years), and life sciences (6.9 years) and was longest in education (12.7 years). Like total time to degree, time spent in graduate school increased between 1983 and 1993, has declined overall since then, and varies with broad field of study. Time spent in graduate school was the same or higher in 2008 than in 1983 in life sciences, physical sciences, engineering, and education, but was lower in social sciences, humanities, and other fields (table 18).

Age at Doctorate

A third measure of time to degree gathered in the SED is age at receipt of the doctorate. The median ages of those who earned doctorates in 2008 are shown in detailed data tables 38-40 by major field of degree and in detailed data table 41 by citizenship and race/ethnicity; figure 17 displays their age distribution. The median age at receipt of the doctorate for all doctorate recipients in 2008 was 32.4 years. Like other measures, age at degree varies with field of study. The majority of doctorate recipients in S&E fields earn their

FIGURE 17. Distribution of age at time of doctorate, by broad field of study: 2008 Percent



degrees while in their early 30s. In comparison, median age at doctorate was 34.9 years in humanities, 41.5 years in education, and 35.6 years in the other fields category (table 20).

Doctorate Recipients with Disabilities

Since 1985 the SED has included questions asking whether the doctorate recipient has a physical or other kind of disability. The current question format (items C10 and C11, appendix B) has been used since 2001 and asks respondents to indicate all applicable response options. Among the 2008 doctorate recipients, a total of 656 individuals (slightly more than 1% of the doctoral cohort) indicated having one or more disabilities (table 21). The most frequently reported disabilities were learning or cognitive disabilities, with 209 doctorate recipients indicating this disability, followed by physical or orthopedic, with 204. Doctorate recipients with disabilities were more likely to earn their degrees in non-S&E fields of study (41%) than were persons who reported no disabilities (30%). Women reported a disability more often than men. U.S. citizens and permanent residents were more likely to report one or more disabilities than were temporary visa holders.

Financial Support and Education-Related Debt of Doctorate Recipients

Sources of Financial Support

The SED asks two questions that, taken together, provide information on the financial sources of support that new doctorate recipients used during graduate school (for the exact formats and wordings, see appendix B). The first question asks respondents to complete a checklist of 14 different potential sources of support, such as fellowships and scholarships, grants, teaching and research assistantships, and various personal arrangements. The second question asks respondents which of the identified sources was the primary source of support and which was the secondary source of support. For reporting purposes, these 14 sources are combined into seven categories, shown in table 22.

Three-fourths of the 2008 doctorate recipients reported teaching assistantships, research assistantships/traineeships, and fellowships/grants to be their primary source of support during graduate school. One in five (20%) new doctorate recipients in 2008 reported financing their graduate studies primarily through their own resources (funds from savings, loans, one's spouse and family, and nonacademic employment). Non-U.S. sources, employer contributions, and other sources accounted for the remaining 5% of the cases (figure 18; table 22).

Sources of support differ substantially by field of study. For example, within each broad S&E field, at least two-thirds of doctorate recipients indicated teaching/research assistantships, traineeships, or fellowships/grants as their primary source of support. None of the S&E fields had more than 30% of doctorate recipients report relying on their own resources as a primary source of support. In contrast, humanities was the only broad non-S&E field with at least two-thirds of doctorate recipients reporting teaching/ research assistantships, traineeships, or fellowships/grants as their primary source. In the other non-S&E fields, 60% of education doctorate recipients and 31% of recipients in other fields reported relying on their own resources as their primary source of graduate school support.

Overall, women were more likely than men to indicate that personal resources were their primary source of support (26% compared with 15%). This reflects both gender differences in broad fields of specialization and the differences among fields in sources of support (table 22).

Temporary visa holders are more likely to receive primary support from teaching assistantships (21%) or research assistantships (50%) than are U.S. citizens and permanent residents (16% and 21%, respectively). Temporary visa holders are also less likely to rely on their own resources (5%) for primary support than are U.S. citizen and permanent resident respondents (27%). The source of support differences between the two citizenship groups was similar across all broad S&E fields of study (table 22).

Differences in the various modes of financial support overall were found among racial/ethnic groups, in part reflecting differences in distributions among broad field of study (figure 18; table 22). Black doctorate recipients indicated the greatest reliance on their own resources to finance their doctoral program (41%), followed by American Indians (32%), Hispanics (29%), and multiracial recipients (25%) (table 22). Asians were the least likely of the racial/ethnic minority groups to report using their own resources (15%).

Substantial racial/ethnic differences in the use of different types of financial support were found within fields. In each broad S&E field, Asians and whites were generally more likely than blacks and Hispanics to rely on research assistantships and were less likely to have fellowships or grants as their primary source of support (table 22). Racial/ ethnic differences in reliance on own resources were not as pronounced within most of the broad fields of study.

Levels of Education-Related Debt

The SED asks new doctorate recipients to indicate how much money they owe that is directly tied to their undergraduate and graduate educational programs. Just over half (53%) of the respondents in 2008 reported having no graduate or undergraduate education-related (cumulative) debt, and another 19% reported cumulative debt of \$20,000 or less (table 23). However, 8% of all new doctorate recipients reported debt over \$70,000. Examining the debt distributions across the seven broad fields, substantial differences were evident. Graduates in engineering (66%) and physical sciences (64%) were most likely to complete their doctorate without education-related debt, followed by graduates in life sciences (54%), other fields (49%), and education (47%). Debt levels of \$70,000 or more were most common among graduates in social science fields (15%), other fields (12%), humanities (11%), and education (11%).

Separating reported levels of undergraduate and graduate education-related debt shows greater indebtedness from graduate school than from undergraduate education. Overall, 74% of the 2008 doctoral cohort reported no remaining undergraduate debt, and less than 1% reported remaining undergraduate debt greater than \$70,000 (table 23). In comparison, the percentage of respondents reporting no graduate school debt was lower (64%), and the percentage reporting the very highest levels of graduate school debt (i.e., greater than \$70,000) was substantially higher (6%). The difference in levels of existing indebtedness between undergraduate and

graduate school was particularly large for doctorate recipients in the social sciences and the broad non-S&E fields. The cumulative debt differences among the broad fields of doctoral study were greater for graduate education.

The pattern of debt levels for the study's main demographic groups is shown in table 24. Cumulative debt differences between the sexes in 2008 were not large, with new male doctorate recipients about four percentage points more likely to have no debt than their female counterparts (55% compared with 51%). U.S. citizen and permanent resident doctorate recipients were less likely than temporary visa holders to have no higher-education-related debt (43% compared with 73%) and were more likely to have debt totaling over \$70,000 (10% compared with 4%) (table 24).

Particularly noteworthy is the much greater incidence of high levels of cumulative education-related debt among blacks, American Indians, Hispanics, and multiracial doctorate recipients (table 24). Of doctorate recipients, 24% of blacks, 14% of American Indians, 13% of Hispanics, and 13% of multiracial respondents owed over \$70,000, compared with 5% of Asians and 9% of whites. Asians (60%) and whites (43%) were more likely to have no education-related debt at completion of the doctorate.

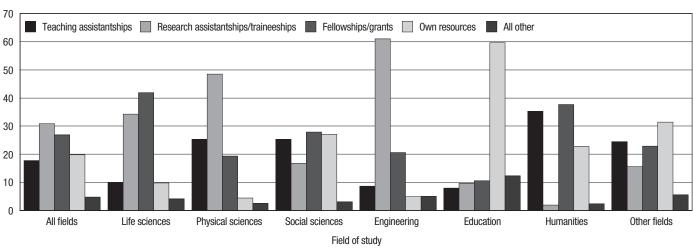


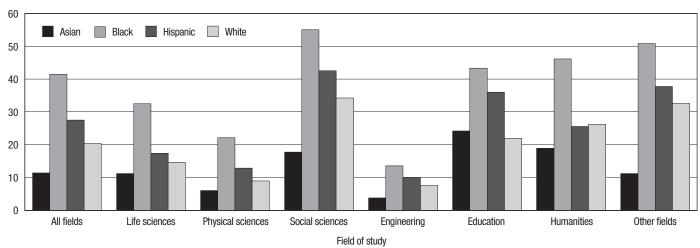
FIGURE 18. Primary source of financial support for doctorate recipients, by broad field of study: 2008 Percent

The racial/ethnic group graduate debt differences are in part a function of the racial/ethnic differences in fields of doctoral study, which, as seen in table 23, were also associated with levels of indebtedness. Table 25 and figure 19 show the percentages of racial/ethnic groups with graduate debt greater than \$30,000 for each broad field of doctoral study. Black doctorate recipients in all fields were more

likely than doctorate recipients in other racial/ethnic groups to complete their doctorate with at least that level of graduate-school debt. Hispanics, American Indians, and multiracial doctorate recipients were more likely than whites and Asians to incur such a high level of graduate school debt, but the differences are smaller than for blacks in most broad fields.

FIGURE 19. U.S. citizen and permanent resident doctorate recipients with levels of graduate school debt greater than \$30,000, by broad field of study and race/ethnicity: 2008

Percent



See table 25.

Postgraduation Plans, Employment, and Location

he SED questionnaire includes a number of questions about doctorate recipients' immediate plans for work or further training, and this section focuses on respondents who have definite postgraduation plans for work or training. The responses provide a useful overview of the number of doctorate recipients planning to enter academic positions, government and industry, and postdoctoral programs of research and further study. The SED also collects information on the main types of work activities—research, teaching, administration, and professional services to individuals—that the doctorate recipients anticipate in their new positions.8

Definite Commitments

Nearly 7 in 10 of all doctorate recipients in 2008 reported having definite commitments for employment or postdoctoral research training or study (table 26). As defined here, respondents indicate a definite commitment either by reporting plans to return to or continue in their predoctoral employment or by reporting they had signed a contract or had made a definite commitment for postdoctoral research or other work. Respondents were not considered to have definite commitments if they reported any of the following to the SED: negotiating with one or more specific organizations, seeking a position but having no definite commitment yet, intending to enter into another full-time degree program, not planning to work or study, or some other situation, usually described by the respondent as "have not made a plan yet" (see question B3 in the survey questionnaire, appendix B). Of the 31% without definite commitments, 27% were negotiating, 61% were seeking a position without a definite commitment, 4% did not plan to work or study in the next year, and the remainder were enrolling in another full-time degree program (for example, MD or JD) or reported having "other" plans.

The 69% of respondents with definite commitments equals the percentage in 2007 that reported such commitments. The percentages in 2008 with definite commitments vary little by the broad fields of study, being within 2 to 7 percentage points of the overall rate (table 26).

The percentages of graduates from various demographic groups having definite commitments are shown in table 27. In 2008 about 68% of women and 70% of men reported having definite plans. U.S. citizens and permanent residents were more likely to have definite commitments (70%) than were temporary visa holders (66%). Among U.S. citizens and permanent residents, whites (72%) and American Indians (74%) were more likely than Asians (62%), blacks (64%), Hispanics (66%), and multiracial recipients (68%) to have definite commitments. Over the past two decades, whites have generally been more likely than other racial/ethnic groups to have definite commitments (table 27).

Employment and Employment Sector

Among the doctorate recipients reporting definite commitments in 2008, 64% indicated commitments to enter employment (table 28). The most common employment sector of doctorate recipients with definite employment commitments within the United States was academe (51%) (table 29). The next largest group had plans to enter industry or some form of self-employment (27%), 6% planned to work for U.S. federal, state, or local government, and 5% planned to work for a nonprofit organization. The remaining 11% of the 2008 doctorate recipients indicated a type of employment that did not correspond to these main sectors or did not report a sector, and are grouped into the "other/unknown" category in tables 29 and 30. These included a mix of employment in elementary and secondary schools or school systems, foreign governments, and non-governmental organizations.

The trend from 1988 to 2008 has been reduction in the share of government employment coupled with a relatively steady share of employment in the higher education sector, except for a noticeable dip in 1998 (table 29). The percentage of new doctorate recipients with definite employment commitments in industry or some form of self-employment increased from 21% in 2003 to 27% in 2008. The 6-percentage point gain in industry and self-employment in 2008 over 2003 was accompanied by declines of 3 percentage points in academe relative to 2003, along with small declines in the government and non-profit sectors.

⁸ The items in the postgraduation plans section of the questionnaire are not classified as "critical items" and thus are not subject to missing data follow-ups. The response rate to the item asking whether the respondent had definite plans for either career employment or study (item B3) was 89%.

⁹ The vast majority of the 27% with definite plans in industry or selfemployment reported plans to enter industry (26%).

The relative shares of doctorate recipients in the main employment sectors varied by broad field of study (table 29). The proportion employed in academe in 2008 was highest among humanities doctorate recipients (86%) and lowest among engineering doctorate recipients (15%). The proportion employed in industry or self-employed was highest among engineering (73%) and physical sciences (56%) graduates and lowest among humanities (3%) and education (4%) doctorate recipients. Humanities doctorate recipients were the least likely to have work commitments in government (2%). The percentage of doctorate recipients classified as having "other/ unknown" work commitments was by far the greatest among education graduates (38%), reflecting the high rates at which these individuals are employed in elementary and secondary schools or school systems.

As in other variables in this report, at least some part of employment-sector differences among doctorate recipients are reflections of demographic differences in doctoral fields of study and early career patterns across broad fields (table 30). Among women who received doctorates in 2008, 17% had plans to enter industry or some form of self-employment, compared with 36% of their male counterparts. Women were more likely than men to have commitments to academe (58% compared with 45%) and were more likely to have commitments to "other/unknown" employment (14% compared with 9%); this reflects the relatively high concentration of women earning doctorates in humanities, social sciences, life sciences, and education.

Temporary visa holders with definite commitments to remain in the United States after graduation were less likely than

U.S. citizens and permanent residents to have work commitments in academe (38% compared with 55%). Reflecting their concentration in the broad fields of physical sciences and engineering, temporary visa holders were much more likely than U.S. citizens and permanent residents to have plans in the United States for employment in industry or self-employment (56% compared with 18%).

Among U.S. citizens and permanent residents, Asians were less likely than blacks, Hispanics, or whites to go into academe (42%) and were more likely than those in other racial/ethnic groups to go into industry or self-employment (40%). Blacks were least likely to have work commitments in industry or self-employment (11%) and were more likely to have commitments in the "other" category (22%). This latter pattern reflects the high representation of blacks in the broad field of education and the high rate of employment of those doctorate recipients in elementary and secondary schools or school systems.

Postdoctoral Training or Study

Among the doctorate recipients reporting definite commitments, 36% committed to a postdoc (a temporary position primarily for gaining additional education and training in research) rather than to career employment (table 28). This percentage matches the high recorded in 2007 (see supplemental table S-28). Commitments for postdoctoral study were far more common among graduates in life sciences (66%) and physical sciences (53%) than in the other broad fields (figure 20).

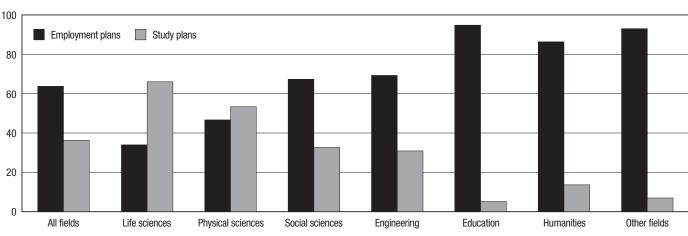


FIGURE 20. Postgraduation plans of doctorate recipients with definite postgraduation commitments, by broad field of study: 2008 Percent

See table 28.

The percentages of new doctorate recipients entering postdoctoral study have increased since 1988 in all of the broad fields, most notably within social sciences (an increase of 17 percentage points since 1988) and engineering (an increase of 11 percentage points). Commitments for postdoctoral study within the non-S&E fields have increased over the past two decades but remain relatively infrequent (table 28).

Differences among demographic subgroups are shown in table 31. Although men continued to be more likely than women to have plans for postdoctoral study (38% compared with 34%), 2008 marked an all-time high for women with plans for postdoctoral study. The percentage of men with plans for postdoctoral study matched the all-time high level (38%) recorded in 2004. (See table 27 in the 2004 Summary Report; available at http://www.norc.org/projects/ Survey+of+Earned+Doctorates.htm.)

Among those with definite commitments, temporary visa holders were more likely than U.S. citizens and permanent residents to pursue postdoctoral studies. Among U.S. citizens and permanent residents, Asian doctorate recipients were most likely to pursue postdoctoral study, followed by Hispanic and multiracial recipients (table 31). The differences among citizenship and racial/ethnic subgroups are consistent with the greater number of postdocs in physical and life sciences and the greater concentrations in those fields of temporary visa holders and Asian U.S. citizens and permanent residents (detailed data table 41).

Sources of Financial Support for Postdoctoral Appointments

The SED asks respondents with definite commitments for a postdoc in the year after graduation to indicate the main source of support for their postdoctoral appointment. In 2008, 45% of these respondents indicated a college or university as their main source of funding, and 29% indicated the U.S. government (table 32). (Some college or university support may derive from federal funds channeled through the university, which may not be clear to the SED respondents.) Since 1988, the overall trend has been a decreasing share of U.S. government support and an increasing share of college or university support for postdoctoral study. In 2008, private foundations and other types of nonprofit organizations were the main support for about 8% of doctorate recipients with a commitment for a postdoc, and about 10% indicated sources of support other than those listed in the questionnaire. Specific information provided by these respondents indicated that many had support from international organizations.

Among doctorate recipients in 2008, differences between men and women in the main source of postdoctoral support were small (table 32), as were differences among Asians, blacks, Hispanics, whites, and multiracial doctorate recipients who were U.S. citizens or permanent residents. However, American Indians were more likely than all other race/ethnic groups to receive their funding from a private foundation.

A number of differences in sources of support were apparent between the two citizenship groups. As might be expected, U.S. citizens and permanent residents were the most likely to have the U.S. government as their main source of postdoctoral support, although substantial numbers of temporary visa holders also received U.S. government support. The difference was made up nearly entirely by university or college funding, where temporary visa holders were more likely than U.S. citizens and permanent residents to report this type of support.

Postgraduate Location of Temporary Visa Holders

Among temporary visa holders with definite commitments for work or further training, 78% of all new doctorate recipients indicated that they would remain in the United States following graduation (table 33). In 2008, engineering and physical science were the broad fields with the highest concentrations of new doctorate recipients with temporary visas who were staying in the United States (85% and 83%, respectively) (table 34). The lowest concentrations were in the broad fields of education (58%) and social sciences (61%).

The number of temporary visa holders earning research doctorates in the United States has increased over the past 20 years, as has the tendency for those students with definite commitments to remain in the United States following graduation (table 33). In 1988, 60% of those with temporary visas had definite commitments to positions in the United States. A decade later it was 68%, and in 2008 it rose to 78%.

The imposition of travel restrictions and other constraints on non-U.S. citizens studying in the United States in the wake of the terrorist attacks on September 11, 2001, raised concerns among many involved in U.S. doctoral education that the numbers of temporary visa holders pursuing U.S. doctorates and staying in the United States after graduation might decline.¹⁰ There is no evidence yet of declining numbers of temporary visa holders receiving U.S. doctorates. The number of doctorates earned by individuals holding temporary resi-

¹⁰ Committee on Policy Implications of International Graduate Students and Postdoctoral Scholars in the United States. Board on Higher Education and Workforce, National Research Council, National Academies of Science, 2005, Policy Implications of International Graduate Students and Postdoctoral Scholars in the United States. Washington, DC: National Academies Press.

dency visas has increased every year since 2000 and reached an all-time high in 2008 (detailed data table 48). But since the median time from starting graduate school to completing the doctorate is about 9 years, if there were to be a decline in the number of temporary visa holders earning doctorates, it might not be apparent until the end of this decade. The increase in the number of doctorate recipients with a temporary visa was much smaller than in the previous 5 years.

With respect to all temporary visa holders earning doctoral degrees, including those without definite commitments, 74% reported intentions to stay in the United States after earning their degree, slightly lower than in 2007 (75%) (table 35). The overall trend from 2003 onward is of increasing intent to stay in the United States except for a slight decline in 2008 (table 35). This general pattern held for doctorate recipients from all non-European regions. Doctorate recipients from East/South Asia were the most likely to stay in the United States in 2008 (79%) and have been in every year since 2002. Within that region, recipients from India (89%) and China (88%) were the most likely to report intentions to stay.

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TABLE 1. Doctorates awarded and annual percentage change in doctorates awarded by U.S. colleges and universities: 1957-2008

	Doctorate	% change from		Doctorate	% change from
Year	recipients	previous year	Year	recipients	previous year
1957	8,611	1.1	1983	31,280	0.6
1958	8,773	1.9	1984	31,334	0.2
1959	9,213	5.0	1985	31,295	-0.1
1960	9,733	5.6	1986	31,897	1.9
1961	10,413	7.0	1987	32,365	1.5
1962	11,500	10.4	1988	33,497	3.5
1963	12,728	10.7	1989	34,325	2.5
1964	14,325	12.5	1990	36,065	5.1
1965	16,340	14.1	1991	37,530	4.1
1966	17,949	9.8	1992	38,886	3.6
1967	20,403	13.7	1993	39,800	2.4
1968	22,937	12.4	1994	41,033	3.1
1969	25,743	12.2	1995	41,747	1.7
1970	29,498	14.6	1996	42,437	1.7
1971	31,867	8.0	1997	42,539	0.2
1972	33,041	3.7	1998	42,638	0.2
1973	33,755	2.2	1999	41,097	-3.6
1974	33,047	-2.1	2000	41,366	0.7
1975	32,952	-0.3	2001	40,738	-1.5
1976	32,946	0.0	2002	40,025	-1.8
1977	31,716	-3.7	2003	40,758	1.8
1978	30,875	-2.7	2004	42,118	3.3
1979	31,238	1.2	2005	43,381	3.0
1980	31,019	-0.7	2006	45,615	5.1
1981	31,355	1.1	2007	48,112	5.5
1982	31,108	-0.8	2008	48,802	1.4

TABLE 2. U.S. colleges and universities awarding doctorates and average doctorate recipients per institution: 1968–2008

			Mean number of doctorate recipients	Median number of doctorate recipients
Year	Doctorate recipients	Institutions	per institution	per institution
1968	22,937	229	100	43.0
1969	25,743	231	111	52.0
1970	29,498	240	123	55.0
1971	31,867	260	123	48.5
1972	33,041	267	124	52.0
1973	33,755	286	118	42.0
1974	33,047	292	113	39.5
1975	32,952	292	113	43.5
1976	32,946	294	112	43.5
1977	31,716	304	104	41.0
1978	30,875	311	99	36.0
1979	31,238	311	100	40.0
1980	31,019	320	97	37.0
1981	31,355	323	97	41.0
1982	31,108	328	95	35.0
1983	31,280	332	94	37.0
1984	31,334	331	95	39.0
1985	31,295	337	93	36.0
1986	31,897	340	94	36.0
1987	32,365	349	93	38.0
1988	33,497	351	95	36.0
1989	34,325	356	96	36.0
1990	36,065	354	102	42.5
1991	37,530	364	103	38.5
1992	38,886	367	106	42.0
1993	39,800	372	107	42.5
1994	41,033	374	110	43.0
1995	41,747	382	109	43.0
1996	42,437	390	109	44.0
1997	42,539	384	111	44.5
1998	42,638	388	110	43.5
1999	41,097	397	104	41.0
2000	41,366	409	101	40.0
2001	40,738	418	97	36.0
2002	40,025	416	96	38.0
2003	40,758	425	96	36.0
2004	42,118	419	101	38.0
2005	43,381	419	104	41.0
2006	45,615	419	109	40.0
2007	48,112	414	116	45.5
2008	48,802	421	116	43.0

TABLE 3. Top 20 doctorate-granting institutions, by broad field of study: 2008

Institution	Doctorate recipients	Institution	Doctorate recipients
All fields	48,802	Life sciences ^a	11,088
U. CA, Berkeley	856	Johns Hopkins U.	235
U. TX-Austin	821	U. WI-Madison	226
U. WI-Madison	740	Harvard U.	223
U. IL-Urbana-Champaign	735	U. NC Chapel Hill	223
U. CA, Los Angeles	724	U. CA, Davis	202
OH State U., The	719	OH State U., The	201
U. MI	716	U. FL	194
U. MN	690	U. WA	184
U. FL	674	U. CA, Los Angeles	182
Harvard U.	660	U. MN	166
PA State U., The	658	U. CA, Berkeley	158
Stanford U.	638	U. MI	150
U. MD	614	Cornell U.	144
MA Institute of Technology	599	U. IL-Urbana-Champaign	131
Purdue U.	597	Boston U.	129
TX A&M U.	594	TX A&M U.	129
U. WA	574	U. Pittsburgh	129
U. Southern CA	571	U. CA, San Diego	126
U. NC Chapel Hill	561	PA State U., The	123
U. CA, Davis	500	Purdue U.	122
Physical sciences ^b	8,129	Social sciences ^c	7,509
U. CA, Berkeley	192	U. CA, Berkeley	159
MA Institute of Technology	180	U. CA, Los Angeles	134
U. IL-Urbana-Champaign	150	Harvard U.	128
U. TX-Austin	150	Graduate School & U. Ctr., CUNY	116
U. WI-Madison	146	U. MD	110
Stanford U.	140	U. TX-Austin	110
U. MD	136	U. MN	104
Purdue U.	131	OH State U., The	101
U. MI	125	U. MI	101
U. CA, Los Angeles	121	U. Chicago, The	92
U. CA, San Diego	119	U. FL	87
U. WA	118	U. NC Chapel Hill	87
PA State U., The	117	U. IL-Urbana-Champaign	86
Cornell U.	112	U. WI-Madison	82
TX A&M U.	107	U. Southern CA	81
SUNY Stony Brook U.	106	NY U.	79
U. MN	106	PA State U., The	79
Harvard U.	105	U. WA	77
U. CO	104	Yale U.	77
Carnegie Mellon U.	99	AZ State U.	74
Columbia U.	99	Cornell U.	74
Engineering	7,862	Education	6,578
GA Institute of Technology	319	Teachers C., Columbia U.	154
MA Institute of Technology	254	U. Southern CA	145
U. MI	215	PA State U., The	106
U. IL-Urbana-Champaign	211	U. TX-Austin	102
U. CA, Berkeley	196	Walden U.	99
Purdue U.	192	U. GA	85
U. TX-Austin	192	TX A&M U.	82
Stanford U.	190	U. MN	82
U. FL	179	OH State U., The	81
PA State U., The	165	U. MO-Columbia	80
	404	I II DA	00
TX A&M U. OH State U., The	164 137	U. PA IN U.	80 79

TABLE 3. Top 20 doctorate-granting institutions, by broad field of study: 2008

	Doctorate		Doctorate
Institution	recipients	Institution	recipients
U. WI-Madison	130	U. MD	74
U. MD	127	AZ State U.	70
VA Polytechnic Institute and State U.	124	GA Southern U.	69
U. Southern CA	116	FL State U.	67
U. CA, Los Angeles	114	MI State U.	66
U. MN	110	U. NE-Lincoln	64
Carnegie Mellon U.	109	U. IL-Urbana-Champaign	63
NC State U.	103	U. KS	63
		U. VA	63
Humanities	4,722	Other fields	2,914
Harvard U.	138	U. TX-Austin	70
U. Chicago, The	124	NY U.	60
U. CA, Los Angeles	115	U. MN	55
Columbia U.	97	U. IL-Urbana-Champaign	54
NY U.	97	MI State U.	50
U. CA, Berkeley	96	FL State U.	48
U. TX-Austin	92	IN U.	45
Yale U.	91	Nova Southeastern U.	45
Graduate School & U. Ctr., CUNY	86	Columbia U.	42
U. PA	81	TX A&M U.	41
U. WI-Madison	81	AZ State U.	39
U. VA	80	PA State U., The	38
U. NC Chapel Hill	77	U. Southern CA	36
Princeton U.	76	Walden U.	36
IN U.	75	Purdue U.	34
Stanford U.	74	Stanford U.	34
Boston U.	73	U. MO-Columbia	34
OH State U., The	70	U. WI-Madison	34
U. MN	67	VA Polytechnic Institute and State U.	34
Brown U.	65	U. MI	33
Rutgers U.	65	U. Pittsburgh	33

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTE: Two or more institutions with the same number of doctorate recipients are listed in alphabetical

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE 4. State of awarding institution, including the District of Columbia and Puerto Rico, ranked by number of doctorate recipients: 2008

	Doctorate		Doctorate
Rank State	recipients	Rank State	recipients
1 California	5,925	27 Louisiana	541
2 New York	3,986	28 Kentucky	449
3 Texas	3,384	29 Kansas	443
4 Massachusetts	2,591	30 Utah	434
5 Pennsylvania	2,463	31 Oregon	413
6 Illinois	2,362	31 South Carolina	413
7 Florida	2,018	33 Mississippi	402
8 Ohio	1,921	34 Oklahoma	360
9 Michigan	1,599	35 Nebraska	296
10 North Carolina	1,449	36 Rhode Island	278
11 Georgia	1,356	37 New Mexico	264
12 Maryland	1,302	38 Puerto Rico	236
13 Indiana	1,284	39 Delaware	227
14 Virginia	1,216	40 Hawaii	193
15 New Jersey	1,023	41 Arkansas	192
16 Wisconsin	961	42 West Virginia	184
17 Minnesota	960	43 North Dakota	152
18 Arizona	893	44 Nevada	15°
19 Missouri	880	45 Idaho	140
20 Washington	815	45 New Hampshire	140
21 Tennessee	789	47 Montana	98
22 Colorado	780	48 South Dakota	83
23 Iowa	694	49 Vermont	80
24 Connecticut	662	50 Wyoming	66
25 Alabama	623	51 Maine	5
26 District of Columbia	551	52 Alaska	29

NOTE: Two or more states with the same number of doctorate recipients are listed in alphabetical order.

TABLE 5. Major field of study of doctorate recipients: Selected years, 1978–2008

	197	78	198	83	198	38	1993		199	98	2003		2008	
Field of study	Number	Percent												
All fields	30,875	100.0	31,280	100.0	33,497	100.0	39,800	100.0	42,638	100.0	40,758	100.0	48,802	100.0
Life sciences	5,086	16.5	5,603	17.9	6,222	18.6	7,463	18.8	8,612	20.2	8,508	20.9	11,088	22.7
Agricultural sciences/natural resources	1,058	3.4	1,223	3.9	1,229	3.7	1,174	2.9	1,267	3.0	1,179	2.9	1,201	2.5
Biological/biomedical sciences	3,516	11.4	3,741	12.0	4,111	12.3	5,092	12.8	5,846	13.7	5,696	14.0	7,793	16.0
Health sciences	512	1.7	639	2.0	882	2.6	1,197	3.0	1,499	3.5	1,633	4.0	2,094	4.3
Physical sciences	4,148	13.4	4,375	14.0	5,250	15.7	6,428	16.2	6,670	15.6	5,830	14.3	8,129	16.7
Chemistry	1,544	5.0	1,758	5.6	2,013	6.0	2,137	5.4	2,216	5.2	2,040	5.0	2,247	4.6
Computer and information sciences	121	0.4	286	0.9	515	1.5	880	2.2	927	2.2	867	2.1	1,786	3.7
Earth, atmospheric, and ocean sciences	578	1.9	587	1.9	670	2.0	721	1.8	766	1.8	683	1.7	862	1.8
Mathematics	838	2.7	701	2.2	749	2.2	1,146	2.9	1,177	2.8	993	2.4	1,400	2.9
Physics and astronomy	1,067	3.5	1,043	3.3	1,303	3.9	1,544	3.9	1,584	3.7	1,247	3.1	1,834	3.8
Social sciences	6,213	20.1	6,259	20.0	5,947	17.8	6,759	17.0	7,289	17.1	7,003	17.2	7,509	15.4
Anthropology	399	1.3	373	1.2	325	1.0	342	0.9	425	1.0	472	1.2	481	1.0
Economics	800	2.6	813	2.6	852	2.5	930	2.3	1,001	2.3	932	2.3	1,091	2.2
Political science/international relations	870	2.8	637	2.0	635	1.9	823	2.1	978	2.3	983	2.4	959	2.0
Psychology	3,055	9.9	3,346	10.7	3,074	9.2	3,420	8.6	3,673	8.6	3,276	8.0	3,361	6.9
Sociology	610	2.0	525	1.7	449	1.3	513	1.3	549	1.3	597	1.5	601	1.2
Other social sciences	479	1.6	565	1.8	612	1.8	731	1.8	663	1.6	743	1.8	1,016	2.1
Engineering	2,423	7.8	2,781	8.9	4,186	12.5	5,698	14.3	5,922	13.9	5,281	13.0	7,862	16.1
Aerospace/aeronautical engineering	103	0.3	106	0.3	150	0.4	228	0.6	241	0.6	200	0.5	265	0.5
Chemical and related engineering	280	0.9	392	1.3	684	2.0	737	1.9	777	1.8	648	1.6	964	2.0
Civil and related engineering	303	1.0	397	1.3	531	1.6	624	1.6	650	1.5	674	1.7	865	1.8
Electrical and related engineering	539	1.7	625	2.0	1,010	3.0	1,543	3.9	1,595	3.7	1,466	3.6	2,299	4.7
Industrial engineering	51	0.2	86	0.3	127	0.4	236	0.6	229	0.5	214	0.5	281	0.6
Materials/metallurgical engineering	247	0.8	268	0.9	374	1.1	535	1.3	565	1.3	475	1.2	665	1.4
Mechanical and related engineering	377	1.2	379	1.2	715	2.1	1,030	2.6	1,022	2.4	814	2.0	1,139	2.3
Other engineering	523	1.7	528	1.7	595	1.8	765	1.9	843	2.0	790	1.9	1,384	2.8
Education	7,194	23.3	7,174	22.9	6,361	19.0	6,689	16.8	6,569	15.4	6,643	16.3	6,578	13.5
Education administration	1,455	4.7	1,632	5.2	1,749	5.2	2,123	5.3	2,066	4.8	2,356	5.8	2,248	4.6
Education research	3,165	10.3	3,080	9.8	2,512	7.5	2,446	6.1	2,584	6.1	2,718	6.7	2,649	5.4
Teacher education	551	1.8	483	1.5	473	1.4	428	1.1	342	0.8	242	0.6	274	0.6
Teaching fields	1,352	4.4	1,327	4.2	988	2.9	943	2.4	954	2.2	714	1.8	909	1.9
Other education	671	2.2	652	2.1	639	1.9	749	1.9	623	1.5	613	1.5	498	1.0
Humanities	4,056	13.1	3,336	10.7	3,389	10.1	4,267	10.7	5,295	12.4	5,193	12.7	4,722	9.7
American literature	212	0.7	173	0.6	186	0.6	293	0.7	389	0.9	362	0.9	338	0.7
English language and literature	813	2.6	542	1.7	531	1.6	655	1.6	689	1.6	568	1.4	553	1.1
Foreign language and literature	637	2.1	504	1.6	430	1.3	575	1.4	643	1.5	623	1.5	627	1.3
History	852	2.8	616	2.0	603	1.8	726	1.8	990	2.3	941	2.3	969	2.0
Other humanities	1,542	5.0	1,501	4.8	1,639	4.9	2,018	5.1	2,584	6.1	2,699	6.6	2,235	4.6

TABLE 5. Major field of study of doctorate recipients: Selected years, 1978–2008

	197	78	198	33	198	38	199	93	199	98	200	03	200	08
Field of study	Number	Percent												
Other fields	1,755	5.7	1,752	5.6	2,142	6.4	2,496	6.3	2,281	5.3	2,300	5.6	2,914	6.0
Business and management	713	2.3	750	2.4	1,033	3.1	1,281	3.2	1,175	2.8	1,036	2.5	1,437	2.9
Communication	292	0.9	250	8.0	247	0.7	321	8.0	373	0.9	415	1.0	556	1.1
Fields not elsewhere classified	750	2.4	752	2.4	862	2.6	894	2.2	729	1.7	849	2.1	921	1.9
Unknown field	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0	0	0.0	0	0.0

NOTE: Major field of study definitions are detailed in appendix B.

TABLE 6. Doctorate recipients, by sex and broad field of study: Selected years, 1978–2008

	197	78	198	3	198	8	199	3	199	8	200)3	200	8(
Field of study and sex	Number	Percent												
All fields ^a	30,875	100.0	31,280	100.0	33,496	100.0	39,508	100.0	42,478	100.0	40,758	100.0	48,767	100.0
Male	22,553	73.0	20,748	66.3	21,677	64.7	24,386	61.7	24,630	58.0	22,255	54.6	26,271	53.9
Female	8,322	27.0	10,532	33.7	11,819	35.3	15,122	38.3	17,848	42.0	18,503	45.4	22,496	46.1
Life sciences ^b	5,086	100.0	5,603	100.0	6,222	100.0	7,416	100.0	8,592	100.0	8,508	100.0	11,074	100.0
Male	3,920	77.1	3,871	69.1	3,935	63.2	4,312	58.1	4,683	54.5	4,398	51.7	5,220	47.1
Female	1,166	22.9	1,732	30.9	2,287	36.8	3,104	41.9	3,909	45.5	4,110	48.3	5,854	52.9
Physical sciences ^c	4,148	100.0	4,375	100.0	5,250	100.0	6,359	100.0	6,638	100.0	5,830	100.0	8,127	100.0
Male	3,716	89.6	3,769	86.1	4,387	83.6	5,035	79.2	5,067	76.3	4,285	73.5	5,856	72.1
Female	432	10.4	606	13.9	863	16.4	1,324	20.8	1,571	23.7	1,545	26.5	2,271	27.9
Social sciences ^d	6,213	100.0	6,259	100.0	5,946	100.0	6,725	100.0	7,259	100.0	7,003	100.0	7,508	100.0
Male	4,287	69.0	3,768	60.2	3,261	54.8	3,378	50.2	3,302	45.5	3,116	44.5	3,121	41.6
Female	1,926	31.0	2,491	39.8	2,685	45.2	3,347	49.8	3,957	54.5	3,887	55.5	4,387	58.4
Engineering	2,423	100.0	2,781	100.0	4,186	100.0	5,621	100.0	5,884	100.0	5,281	100.0	7,852	100.0
Male	2,370	97.8	2,657	95.5	3,900	93.2	5,098	90.7	5,111	86.9	4,370	82.7	6,164	78.5
Female	53	2.2	124	4.5	286	6.8	523	9.3	773	13.1	911	17.3	1,688	21.5
Education	7,194	100.0	7,174	100.0	6,361	100.0	6,669	100.0	6,552	100.0	6,643	100.0	6,577	100.0
Male	4,339	60.3	3,555	49.6	2,847	44.8	2,748	41.2	2,421	37.0	2,253	33.9	2,163	32.9
Female	2,855	39.7	3,619	50.4	3,514	55.2	3,921	58.8	4,131	63.0	4,390	66.1	4,414	67.1
Humanities	4,056	100.0	3,336	100.0	3,389	100.0	4,244	100.0	5,286	100.0	5,193	100.0	4,721	100.0
Male	2,525	62.3	1,891	56.7	1,897	56.0	2,235	52.7	2,722	51.5	2,566	49.4	2,256	47.8
Female	1,531	37.7	1,445	43.3	1,492	44.0	2,009	47.3	2,564	48.5	2,627	50.6	2,465	52.2
Other fields	1,755	100.0	1,752	100.0	2,142	100.0	2,474	100.0	2,267	100.0	2,300	100.0	2,908	100.0
Male	1,396	79.5	1,237	70.6	1,450	67.7	1,580	63.9	1,324	58.4	1,267	55.1	1,491	51.3
Female	359	20.5	515	29.4	692	32.3	894	36.1	943	41.6	1,033	44.9	1,417	48.7

^a Group totals exclude individuals for whom sex was not reported; 1 in 1988, 292 in 1993, 160 in 1998, and 35 in 2008.

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer and information sciences.

^d Includes psychology.

TABLE 7. Doctorate recipients and percentage of doctorates to women, by major field of study: 1998 and 2008

	1998	3 ^a	2008	3 ^b	% change in	
	Doctorate		Doctorate		percentage to	
Field of study	recipients	% women	recipients	% women	women	
All fields	42,478	42.0	48,767	46.1	9.8	
Life sciences	8,592	45.5	11,074	52.9	16.2	
Agricultural sciences/natural resources	1,266	29.1	1,201	41.5	42.9	
Biological/biomedical sciences	5,831	43.5	7,783	50.5	16.1	
Health sciences	1,495	67.2	2,090	68.2	1.5	
Physical sciences	6,638	23.7	8,127	27.9	18.1	
Chemistry	2,204	31.5	2,247	34.2	8.4	
Computer and information sciences	924	17.2	1,786	22.4	30.2	
Earth, atmospheric, and ocean sciences	762	26.0	861	36.5	40.4	
Mathematics	1,170	25.4	1,399	31.0	21.9	
Physics and astronomy	1,578	14.1	1,834	19.4	38.0	
Social sciences	7,259	54.5	7,508	58.4	7.2	
Anthropology	422	56.6	481	60.7	7.2	
Economics	997	27.3	1,091	34.3	25.7	
Political science/international relations	976	40.8	959	46.1	13.0	
Psychology	3,661	67.1	3,360	70.3	4.8	
Sociology	547	55.6	601	60.9	9.6	
Other social sciences	656	43.9	1,016	54.2	23.5	
Engineering	5,884	13.1	7,852	21.5	63.6	
Aerospace/aeronautical engineering	240	6.3	265	10.2	63.0	
Chemical and related engineering	771	18.2	964	25.7	41.7	
Civil and related engineering	644	15.5	865	23.1	48.9	
Electrical and related engineering	1,584	9.8	2,298	16.9	71.9	
Industrial engineering	228	17.5	280	28.6	62.9	
Materials/metallurgical engineering	561	15.0	664	23.5	56.9	
Mechanical and related engineering	1,016	9.2	1,135	14.0	53.0	
Other engineering	840	17.3	1,381	31.1	80.0	
Education	6,552	63.0	6,577	67.1	6.4	
Education administration	2,064	59.4	2,248	60.1	1.3	
Education research	2,582	66.8	2,648	71.2	6.5	
Teacher education	340	70.9	274	78.8	11.2	
Teaching fields	952	58.9	909	68.2	15.7	
Other education	614	61.6	498	68.7	11.6	
Humanities	5,286	48.5	4,721	52.2	7.6	
American literature	389	59.1	338	60.9	3.1	
English language and literature	689	57.0	553	66.9	17.3	
Foreign language and literature	641	58.3	627	64.8	11.0	
History	990	39.1	969	42.2	8.0	
Other humanities	2,577	45.8	2,234	48.1	5.0	
Other fields	2,267	41.6	2,908	48.7	17.1	
Business and management	1,165	32.2	1,435	39.4	22.3	
Communication	372	56.7	555	58.2	2.6	
Fields not elsewhere classified	727	48.8	918	57.6	18.0	
Unknown field	3	66.7	0	0.0	na	

na = not applicable.

NOTES: Major field of study definitions are detailed in appendix B. Change in percent to women computed as (% 2008 – % 1998) /% 1998. See table 36.

 $^{^{\}rm a}\,1998$ field total excludes 160 individuals for whom sex was not reported.

^b 2008 field total excludes 35 individuals for whom sex was not reported.

TABLE 8. U.S. citizen and permanent resident doctorate recipients, by race/ethnicity and broad field of study: Selected years, 1988–2008

Field of study and ace/ethnicity	1988	1993	1998	2003	2008
All fields	24,914	28,717	31,196	28,146	30,791
American Indian ^a	94	119	189	137	123
Asian ^b	1,236	2,005	2,729	2,046	2,543
Black	965	1,278	1,603	1,797	2,030
Hispanic	694	974	1,331	1,430	1,765
White	21,459	24,043	24,288	21,563	23,208
Multi-race	na	na	na	365	520
Other/unknown ^c	466	298	1,056	808	602
Life sciences ^d	4,759	5,304	6,149	5,891	7,269
American Indian ^a	18	14	24	17	30
Asian ^b	236	447	812	646	777
Black	104	154	201	211	327
Hispanic	111	160	244	249	398
White	4,210	4,476	4,696	4,526	5,489
Multi-race	na	na	na	81	123
Other/unknown ^c	80	53	172	161	125
Physical sciences ^e	3,442	3,880	4,211	3,366	4,027
American Indian ^a	11	10	19	8	4
Asian ^b	227	437	542	338	417
Black	41	58	91	100	130
Hispanic	75	113	113	115	166
White	2,981	3,204	3,286	2,634	3,168
Multi-race	na	na	na	51	53
Other/unknown ^c	107	58	160	120	89
Social sciences ^f	4,667	5,395	5,792	5,295	5,477
American Indian ^a	13	20	43	35	23
Asian ^b	147	230	325	274	347
Black	201	248	309	325	339
Hispanic	158	219	322	307	426
White	4,065	4,625	4,592	4,119	4,106
Multi-race	na	na	na	81	119
Other/unknown ^c	83	53	201	154	117
Engineering	2,147	2,698	3,047	2,177	2,948
American Indian ^a	4	2	13	12	7
Asian ^b	332	527	557	347	493
Black	31	50	81	77	111
Hispanic	63	66	110	104	133
White	1,655	2,024	2,171	1,565	2,089
Multi-race	na	na	na	15	45
Other/unknown ^c	62	29	115	57	70
Education	5,478	5,969	5,748	5,648	5,590
American Indian ^a	36	51	50	40	40
Asian ^b	130	142	177	150	208
Black	416	556	655	760	758
Hispanic	158	222	290	338	350
White	4,669	4,961	4,409	4,162	4,091
Multi-race Other/unknown ^c	na 69	na 37	na 167	63 135	66 77
Humanities	2,868	3,659	4,487	4,285	3,736
American Indian ^a	6	12	22	16	13
Asian ^b	65 85	109	193	188	171
Black	85	106	155	164	170
Hispanic	103	150	201	258	206

TABLE 8. U.S. citizen and permanent resident doctorate recipients, by race/ethnicity and broad field of study: Selected years, 1988-2008

Field of study and race/ethnicity	4000	4000	4000	2002	2000
Tace/elimicity	1988	1993	1998	2003	2008
White	2,564	3,234	3,736	3,458	3,009
Multi-race	na	na	na	58	88
Other/unknown ^c	45	48	180	143	79
Other fields	1,553	1,812	1,762	1,484	1,744
American Indian ^a	6	10	18	9	6
Asian ^b	99	113	123	103	130
Black	87	106	111	160	195
Hispanic	26	44	51	59	86
White	1,315	1,519	1,398	1,099	1,256
Multi-race	na	na	na	16	26
Other/unknown ^c	20	20	61	38	45

na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001-08.

^c Prior to 2001 this category included doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic respondents who indicated more than one race; in years since 2001 this category includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and Native Hawaiian or Other Pacific Islanders. Includes 91 Native Hawaiians or Other Pacific Islanders in 2003 and 96 Native Hawaiians or Other Pacific Islanders in 2008.

^d Includes agricultural sciences/natural resources, biological/biomedical sciences, and health

^e Includes mathematics and computer and information sciences.

fincludes psychology.

TABLE 9. Major field of study for U.S. citizen and permanent resident doctorate recipients, by race/ethnicity: 2008

	All U.S. citizen and			R	ace/ethnicity			
Field of study	permanent resident doctorate recipients	American Indian ^a	Asian ^b	Black	Hispanic	White	Multi-race	Other/ unknown ^c
All fields	30,791	123	2,543	2,030	1,765	23,208	520	602
Life sciences	7,269	30	777	327	398	5,489	123	125
Agricultural sciences/natural resources	647	5	41	31	26	524	6	14
Biological/biomedical sciences	5,135	20	599	192	312	3,822	96	94
Health sciences	1,487	5	137	104	60	1,143	21	17
Physical sciences	4,027	4	417	130	166	3,168	53	89
Chemistry	1,227	2	137	50	72	927	16	23
Computer and information sciences	695	0	117	26	20	505	8	19
Earth, atmospheric, and ocean sciences	533	2	25	9	17	469	4	7
Mathematics	667	0	60	30	29	522	5	21
Physics and astronomy	905	0	78	15	28	745	20	19
Social sciences	5,477	23	347	339	426	4,106	119	117
Anthropology	397	1	27	12	25	306	6	20
Economics	405	0	58	16	16	301	5	9
Political science/international relations	641	2	47	33	31	503	12	13
Psychology	2,886	14	147	165	276	2,165	70	49
Sociology	463	1	28	39	40	334	12	9
Other social sciences	685	5	40	74	38	497	14	17
Engineering	2,948	7	493	111	133	2,089	45	70
Aerospace/aeronautical engineering	121	1	16	2	3	94	0	5
Chemical and related engineering	408	1	55	16	21	300	7	8
Civil and related engineering	270	0	24	7	15	214	6	4
Electrical and related engineering	664	1	188	18	28	402	11	16
Industrial engineering	90	0	10	12	7	58	3	C
Materials/metallurgical engineering	275	0	39	16	8	205	2	5
Mechanical and related engineering	387	1	37	18	18	299	5	9
Other engineering	733	3	124	22	33	517	11	23
Education	5,590	40	208	758	350	4,091	66	77
Education administration	2,023	15	40	303	135	1,483	21	26
Education research	2,219	14	103	309	139	1,598	27	29
Teacher education	235	2	16	31	8	170	2	6
Teaching fields	718	7	29	63	30	576	6	7
Other education	395	2	20	52	38	264	10	9
Humanities	3,736	13	171	170	206	3,009	88	79
American literature	316	0	20	12	18	255	8	3
English language and literature	452	0	20	15	13	382	13	9
Foreign language and literature	388	0	21	12	69	268	7	11
History	799	4	29	53	43	629	20	21
Other humanities	1,781	9	81	78	63	1,475	40	35
Other fields	1,744	6	130	195	86	1,256	26	45
Business and management	705	2	65	68	23	511	12	24
Communication	402	2	26	41	22	303	3	5
Fields not elsewhere classified	637	2	39	86	41	442	11	16

^a Includes Alaska Natives.

NOTE: Major field of study definitions are detailed in appendix B.

^b Does not include Native Hawaiians or Other Pacific Islanders.

c Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE 10. Doctorate-granting institutions having the largest number of U.S. citizen and permanent resident minority doctorate recipients, by race/ethnicity: 2004–08

Institution	Doctorate recipients	Institution	Doctorate recipients	Institution	Doctorate recipients
American Indian ^a		Asian ^b		Multi-race	
OK State U.	30	U. CA, Los Angeles	474	U. CA, Berkeley	88
AZ State U.	19	U. CA, Berkeley	468	U. CA, Los Angeles	55
U. AZ	19	Stanford U.	340	Stanford U.	52
U. ND	18	Harvard U.	311	Harvard U.	48
U. OK	17	U. Southern CA	267	U. CA, Davis	47
U. KS	12	U. MI	245	U. WA	46
U. MN	11	MA Institute of Technology	225	U. MI	45
U. CA, Berkeley	10	U. CA, Davis	195	MA Institute of Technology	39
U. MI	10	U. IL-Urbana-Champaign	191	U. CA, Santa Barbara	39
U. TX-Austin	10	U. CA, San Diego	187	U. HI Manoa	33
PA State U., The	9	Columbia U.	186	U. CA, San Diego	32
SUNY U. Buffalo	9	U. WA	186	U. PA	29
TX A&M U.	9	U. CA, Irvine	178	Columbia U.	28
U. MT	9	U. PA	177	Cornell U.	28
U. NC Chapel Hill	9	Johns Hopkins U.	172	U. TX-Austin	28
U. WI-Madison	9	Northwestern U.	148	U. WI-Madison	28
Harvard U.	7	U. WI-Madison	142	U. MN	27
Stanford U.	7	U. TX-Austin	140	U. Southern CA	27
U. MO-Kansas City	7	Rutgers U.	130	U. FL	25
U. NM	7	U. MN	129	U. MD	25
U. Southern CA	7	G	0	· · · · · ·	
Top 21 institutions	245	Top 20 institutions	4,491	Top 20 institutions	769
Total institutions reported (194)	657	Total institutions reported (362)	11,506	Total institutions reported (285)	2,271
Black		Hispanic			
Howard U.	334	U. PR-Rio Piedras	274		
Nova Southeastern U.	170	U. CA, Los Angeles	187		
U. MI	153	U. CA, Berkeley	176		
Walden U.	150	U. TX-Austin	174		
U. MD	135	U. Southern CA	168		
Morgan State U.	131	U. FL	129		
U. Southern CA	120	U. MI	129		
Teachers C., Columbia U.	118	U. AZ	128		
Temple U.	115	Stanford U.	115		
U. NC Chapel Hill	115	Harvard U.	109		
Clark Atlanta U.	111	TX A&M U.	106		
FL State U.	109	U. CA, San Diego	105		
Harvard U.	106	U. WI-Madison	104		
Jackson State U.	104	AZ State U.	103		
U. FL	103	Graduate School & U. Ctr., CUNY	103		
U. PA	103	U. NM	99		
Wayne State U.	102	FL International U.	98		
George Washington U.	100	U. CA, Santa Barbara	96		
Loyola U. Chicago	97	U. Houston	92		
PA State U., The	97	U. CA, Irvine	80		
		U. IL-Urbana-Champaign	80		
Top 20 institutions	2,573	Top 21 institutions	2,655		
Total institutions reported (371)	9,559	Total institutions reported (337)	7,658		

^a Includes Alaska Natives.

NOTE: Two or more institutions with the same number of doctorate recipients are listed in alphabetical order.

^b Does not include Native Hawaiians or Other Pacific Islanders.

TABLE 11. Citizenship status of doctorate recipients, by broad field of study: Selected years, 1978–2008

TABLE 11. Citizenship status of doctorate re Field of study and citizenship	1978	1983	1987	1993	1976-2006	2003	2008
All fields	1370	1303	1301	1995	1330	2003	2000
All doctorate recipients	30,875	31,280	33,497	39,800	42,638	40,758	48,802
U.S. citizen and permanent resident	26,679	25,693	24,914	28,717	31,196	28,146	30,791
'	3,475	4,555	6,241	9,964	9,462		15,246
Temporary visa holder Unknown	3,475 721	4,555 1,032	2,342	9,964 1,119	1,980	10,595 2,017	2,765
OTIKIOWIT	721	1,032	2,342	1,119	1,900	2,017	2,700
Life sciences ^a							
All doctorate recipients	5,086	5,603	6,222	7,463	8,612	8,508	11,088
U.S. citizen and permanent resident	4,295	4,678	4,759	5,304	6,149	5,891	7,269
Temporary visa holder	675	796	1,086	2,007	2,158	2,224	3,246
Unknown	116	129	377	152	305	393	573
Physical sciences ^b							
All doctorate recipients	4,148	4,375	5,250	6,428	6,670	5,830	8,129
U.S. citizen and permanent resident	3,421	3,330	3,442	3,880	4,211	3,366	4,027
Temporary visa holder	653	919	1,487	2,355	2,165	2,234	3,678
Unknown	74	126	321	193	294	230	424
Social sciences ^c							
All doctorate recipients	6,213	6,259	5,947	6,759	7,289	7,003	7,509
U.S. citizen and permanent resident	5,469	5,359	4,667	5,395	5,792	5,295	5,477
Temporary visa holder	540	626	771	1,162	1,096	1,301	1,608
Unknown	204	274	509	202	401	407	424
Engineering							
All doctorate recipients	2,423	2,781	4,186	5,698	5,922	5,281	7,862
U.S. citizen and permanent resident	1,588	1,484	2,147	2,698	3,047	2,177	2,948
Temporary visa holder	781	1,191	1,730	2,791	2,581	2,915	4,486
Unknown	54	106	309	209	294	189	428
	34	100	303	200	254	103	420
Education							
All doctorate recipients	7,194	7,174	6,361	6,689	6,569	6,643	6,578
U.S. citizen and permanent resident	6,635	6,408	5,478	5,969	5,748	5,648	5,590
Temporary visa holder	414	563	485	554	487	588	566
Unknown	145	203	398	166	334	407	422
Humanities							
All doctorate recipients	4,056	3,336	3,389	4,267	5,295	5,193	4,722
U.S. citizen and permanent resident	3,796	2,997	2,868	3,659	4,487	4,285	3,736
Temporary visa holder	165	215	297	493	553	683	699
Unknown	95	124	224	115	255	225	287
Other fields							
All doctorate recipients	1,755	1,752	2,142	2,496	2,281	2,300	2,914
U.S. citizen and permanent resident	1,475	1,437	1,553	1,812	1,762	1,484	1,744
Temporary visa holder	247	245	385	602	422	650	963
Unknown	33	70	204	82	97	166	207

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE 12. Top 40 countries/economies of origin of temporary visa holders earning doctorates at U.S. colleges and universities, ranked by number of doctorate recipients: 2008

Rank Country/economy	Doctorate recipients
1 China ^a	4,526
2 India	2,316
3 South Korea	1,440
4 Taiwan	642
5 Turkey	558
6 Canada	497
7 Thailand	327
8 Japan	255
9 Mexico	207
10 Germany	194
11 Russian Federation	171
12 Italy	162
13 Brazil	157
14 Colombia	149
15 France	147
16 Romania	144
17 Iran	137
18 Argentina	134
19 Spain	124
20 United Kingdom	117
21 Egypt	104
22 Israel	103
23 Greece	97
24 Jordan	94
25 Chile	81
26 Bangladesh	76
27 Singapore	73
28 Pakistan	72
29 Bulgaria	70
30 Philippines	68
31 Indonesia	65
32 Saudi Arabia	61
32 Ukraine	61
34 Lebanon	60
35 Kenya	59
35 Nepal	59
37 Nigeria	58
39 Ghana	55
39 Venezuela	55
39 Vietnam	55
Top 40 countries/economies of origin	13,830
Total temporary visa holders (158 countries) ^b	15,117

^a Includes Hong Kong.

NOTE: Countries/economies with same number of doctorate recipients are ranked alphabetically.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

TABLE 13. Doctorate-granting institutions having the largest number of temporary visa holder doctorate recipients, ranked by number of doctorate recipients: 2008

	Doctorate
Rank Institution	recipients
1 U. IL-Urbana-Champa	ign 374
2 TX A&M U.	315
3 PA State U., The	307
4 OH State U., The	292
5 U. FL	274
6 Purdue U.	272
7 GA Institute of Techno	ology 266
8 U. WI-Madison	255
9 U. MN	243
10 U. MI	237
11 U. TX-Austin	227
12 Cornell U.	222
13 U. Southern CA	219
14 Stanford U.	213
15 U. CA, Berkeley	202
16 U. CA, Los Angeles	199
17 MA Institute of Techno	ology 195
18 Harvard U.	177
18 U. MD	177
20 U. CA, Davis	172
Top 20 institutions	4,838
Total institutions repor	ted (420) 15,246

NOTE: Institutions with same number of doctorate recipients are ranked alphabetically.

^b Excludes cases with unknown country/economy of origin.

TABLE 14. Parental education attainment of doctorate recipients, by selected demographic characteristics and field of study: 2008

			ucation attainr	nent (percent)		
Demographic characteristics		High school	Some	Baccalaureate	Advanced	Tota
and field of study	All	or less	college ^a	degree	degree	numbe
All doctorate recipients ^b						
Father's education ^c	100.0	26.7	13.6	25.9	33.8	42,84
Mother's education ^d	100.0	34.5	16.9	25.9	22.7	42,97
Sex						
Male						
Father's education	100.0	27.1	12.7	26.5	33.7	22,97
Mother's education	100.0	36.5	15.9	25.7	22.0	23,02
Female						
Father's education	100.0	26.1	14.6	25.2	34.1	19,86
Mother's education	100.0	32.1	18.2	26.2	23.6	19,95
Race/ethnicity (U.S. citizens and permanent residents)						
American Indian ^e						
Father's education	100.0	42.1	21.5	18.7	17.8	10
Mother's education	100.0	39.8	22.2	20.4	17.6	10
Asian ^f						
Father's education	100.0	20.5	9.6	29.3	40.6	2,38
Mother's education	100.0	30.9	13.5	32.1	23.5	2,39
Black						
Father's education	100.0	45.9	20.7	12.6	20.8	1,77
Mother's education	100.0	40.2	22.7	15.9	21.3	1,82
Hispanic						
Father's education	100.0	40.8	15.3	16.8	27.1	1,59
Mother's education	100.0	45.1	18.4	18.2	18.3	1,61
White						
Father's education	100.0	21.8	14.9	23.2	40.2	21,98
Mother's education	100.0	26.1	19.5	26.8	27.7	22,05
Multi-race						
Father's education	100.0	21.3	15.2	19.9	43.6	49
Mother's education	100.0	27.0	18.9	21.1	32.9	49
Citizenship						
U.S. citizen and permanent resident						
Father's education	100.0	24.3	14.8	22.6	38.3	28,73
Mother's education	100.0	28.5	19.1	25.9	26.5	28,88
Temporary visa holder						
Father's education	100.0	31.5	11.1	32.6	24.7	14,06
Mother's education	100.0	46.7	12.5	25.9	14.9	14,05
Broad field of study						
Life sciences ^g						
Father's education	100.0	24.8	14.1	26.2	35.0	9,87
Mother's education	100.0	31.5	17.6	27.7	23.2	9,90
Physical sciences ^h						
Father's education	100.0	24.5	13.1	28.6	33.7	7,20
Mother's education	100.0	34.7	15.6	26.7	23.0	7,21
Social sciences ⁱ						
Father's education	100.0	23.9	13.6	23.9	38.5	6,48
Mother's education	100.0	30.4	17.6	25.2	26.8	6,52
Engineering						
Father's education	100.0	24.2	12.1	33.0	30.7	6,97
Mother's education	100.0	35.9	14.8	29.8	19.6	6,97
Education						
Father's education	100.0	41.2	16.3	18.1	24.4	5,69
Mother's education	100.0	45.7	19.4	18.6	16.3	5,71

TABLE 14. Parental education attainment of doctorate recipients, by selected demographic characteristics and field of study: 2008

	Parental education attainment (percent)									
Demographic characteristics and field of study	All	High school or less	Some college ^a	Baccalaureate degree	Advanced degree	Total number				
Humanities										
Father's education	100.0	22.1	12.6	21.5	43.8	4,135				
Mother's education	100.0	28.4	16.3	25.7	29.7	4,155				
Other fields										
Father's education	100.0	28.8	12.7	26.8	31.7	2,475				
Mother's education	100.0	36.6	17.8	24.6	21.0	2,484				

^a Includes those who have attended college, but not earned a bachelor's.

TABLE 15. Highest educational attainment of either parent: Selected years, 1978-2008

Year	High school or less	Some college ^a	Baccalaureate degree	Advanced degree
1978	41.6	16.4	20.9	21.1
1983	38.1	15.7	22.2	24.0
1988	35.2	14.7	22.8	27.3
1993	31.2	15.1	20.8	32.8
1998	25.8	13.7	22.4	38.1
2003	23.2	13.3	23.2	40.2
2008 ^b	20.8	13.3	25.4	40.0

^a Includes those who have attended college, but not earned a bachelor's.

^b Includes Native Hawaiians or Other Pacific Islander and those of other/unknown race/ethnicity.

 $^{^{\}rm c}$ Total count excludes 367 (0.9%) cases who reported "not applicable" for father's education.

 $^{^{\}rm d}$ Total count excludes 281 (0.7%) cases who reported "not applicable" for mother's education.

^e Includes Alaska Natives.

^f Does not include Native Hawaiians or Other Pacific Islanders.

⁹ Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^h Includes mathematics and computer and information sciences.

¹Includes psychology.

 $^{^{\}rm b}$ In 2008 0.05% (n=202) doctorate recipients reported "not applicable" for both father's and mother's education.

TABLE 16. Doctorate recipients who earned a master's degree, by whether related to field of doctorate, broad field of doctoral study, and demographic characteristics: 2008

					Phys	sical										
	All doct	All doctorates		ences ^a	scien	ces ^b	Social so	ciences ^c	Engine	eering	Educa	ation	Huma	nities	Other	fields
Demographic characteristic	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's
All fields	72.9	57.0	51.4	35.6	65.4	55.0	82.2	65.2	77.4	70.0	88.9	60.2	84.6	67.3	85.0	63.7
Sex																
Male	71.7	57.0	48.8	32.9	65.9	55.7	81.1	62.9	78.4	71.1	88.4	56.4	84.4	66.4	83.6	63.0
Female	74.5	57.1	53.9	38.2	64.0	53.5	83.1	66.8	74.2	66.4	89.2	62.1	84.7	68.1	86.7	64.6
Citizenship status																
U.S. citizen and permanent resident	75.2	58.5	47.9	34.5	60.8	51.8	86.3	69.6	75.5	69.3	94.8	64.3	89.7	71.8	92.5	72.8
Temporary visa holder	79.8	63.6	66.9	43.7	76.7	64.4	87.0	66.0	85.1	76.7	90.5	62.4	86.6	67.8	87.0	59.7
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^d	82.9	64.2	70.0	D	D	D	87.0	D	71.4	71.4	92.5	72.5	84.6	53.8	D	D
Asian ^e	70.3	54.8	45.7	30.6	68.8	54.9	87.6	69.7	78.9	71.6	90.9	61.1	84.2	65.5	92.3	70.8
Black	83.7	59.3	57.2	37.9	62.3	50.0	89.4	64.9	79.3	73.9	92.3	60.6	90.0	65.3	95.9	72.8
Hispanic	73.9	57.8	44.5	33.7	65.1	55.4	77.0	61.7	76.7	71.4	93.1	66.6	89.3	69.4	93.0	70.9
White	75.4	59.3	48.0	35.1	59.9	51.8	87.2	71.2	75.0	69.1	95.8	65.3	90.8	73.6	92.4	74.3
Multi-race	74.8	57.3	48.0	D	D	D	85.7	D	71.1	62.2	97.0	65.2	86.4	69.3	D	D
Other/unknown ^f	60.6	42.4	37.6	24.0	44.9	34.8	74.4	53.0	61.4	54.3	79.2	44.2	65.8	45.6	77.8	53.3

D = suppressed to avoid disclosure of confidential information.

NOTE: Percentages based on total number of doctorate recipients.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Includes Alaska Natives.

^e Does not include Native Hawaiians or Other Pacific Islanders.

f Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE 17. Doctorate recipients who attended community college, by broad field of study and demographic characteristics: 2008

Democratical constraints	All destants	Life	Physical	Social				
Demographic characteristic	All doctorates	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
All doctorate recipients	12.8	13.9	8.5	14.3	6.5	21.8	13.0	12.4
Sex								
Male	11.6	13.4	8.5	13.5	6.3	24.2	14.5	12.3
Female	14.2	14.4	8.3	15.0	7.3	20.6	11.7	12.6
Citizenship status								
U.S. citizen and permanent resident	19.2	20.2	15.9	18.9	15.0	25.2	16.0	19.3
Temporary visa holder	1.9	2.2	1.3	2.5	1.4	4.2	2.6	2.5
Race/ethnicity (U.S. citizens and permanent residents)								
American Indian ^d	39.0	40.0	D	43.5	D	50.0	D	D
Asian ^e	12.8	14.0	10.8	18.2	8.7	15.4	11.7	10.8
Black	17.0	18.0	9.2	14.7	18.9	19.4	14.7	15.9
Hispanic	23.6	23.9	19.3	17.1	23.3	36.9	20.9	16.3
White	19.6	20.7	16.5	19.0	15.7	25.4	15.7	20.9
Multi-race	26.0	27.6	D	25.2	D	36.4	23.9	D
Other/unknown ^f	18.1	19.2	15.7	22.2	12.9	19.5	16.5	17.8

D = suppressed to avoid disclosure of confidential information.

NOTE: Percentages based on total number of doctorate recipients.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Includes Alaska Natives.

^e Does not include Native Hawaiians or Other Pacific Islanders.

f Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE 18. Median number of years to doctorate award, by broad field of study: Selected years, 1983-2008

Field of study and time to degree	1983	1988	1993	1998	2003	2008
All fields						
Since baccalaureate	9.9	10.6	10.7	10.5	10.2	9.4
Since starting graduate school	8.2	8.7	8.7	8.3	8.5	7.7
Life sciences ^a						
Since baccalaureate	8.0	9.0	9.5	9.2	8.9	8.6
Since starting graduate school	6.7	7.5	7.7	7.5	7.2	6.9
Physical sciences ^b						
Since baccalaureate	7.2	7.5	8.3	8.0	7.8	7.7
Since starting graduate school	6.2	6.7	7.0	6.7	6.7	6.7
Social sciences ^c						
Since baccalaureate	9.5	10.6	10.6	10.0	10.0	9.6
Since starting graduate school	8.0	8.8	8.7	7.9	8.2	7.7
Engineering						
Since baccalaureate	8.1	8.2	9.0	8.8	8.6	7.9
Since starting graduate school	6.7	6.7	7.2	7.2	7.3	6.7
Education						
Since baccalaureate	14.2	17.0	19.3	20.0	18.1	17.0
Since starting graduate school	11.7	13.9	15.7	15.2	13.2	12.7
Humanities						
Since baccalaureate	11.2	12.3	12.0	11.6	11.3	11.3
Since starting graduate school	9.7	10.7	10.2	9.7	9.7	9.3
Other fields						
Since baccalaureate	12.1	13.1	13.3	13.7	13.8	12.1
Since starting graduate school	9.8	10.7	10.7	10.7	10.7	9.3

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE 19. Median number of years to doctorate award, by selected demographic group and broad field of study: 2008

Time to degree and	All fi	ields	Life sci	ences ^a	Physical s	sciences	Social so	ciences ^c	Engine	eering	Educ	ation	Huma	nities	Other	fields
demographic characteristics	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number
Time to baccalaureate (years)																
All doctorate recipients ^d	9.4	44,573	8.6	10,186	7.7	7,387	9.6	6,887	7.9	7,118	17.0	6,008	11.3	4,350	12.1	2,637
Sex																
Male	9.0	23,844	8.4	4,739	7.7	5,302	10.0	2,845	8.0	5,576	16.3	1,965	11.3	2,082	12.0	1,335
Female	10.0	20,725	8.7	5,445	7.7	2,085	9.3	4,042	7.4	1,541	17.3	4,043	11.3	2,268	12.2	1,301
Citizenship																
U.S. citizen and permanent resident ^e	10.0	30,061	8.3	7,100	7.0	3,937	9.6	5,327	7.0	2,875	17.6	5,448	11.5	3,666	14.0	1,708
Temporary visa holder	8.9	14,209	9.0	3,018	8.4	3,406	9.6	1,500	8.2	4,208	12.6	535	10.9	638	10.2	904
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^f	12.0	119	8.0	30	D	D	11.3	21	9.0	7	14.0	40	14.4	12	D	D
Asian ^g	9.5	2,455	8.9	749	8.3	397	9.5	337	8.2	481	15.7	199	12.1	166	12.6	126
Black	12.6	1,980	9.0	315	8.4	129	10.8	332	7.3	109	16.0	737	12.5	166	15.4	192
Hispanic	10.0	1,725	8.1	387	7.5	163	10.0	412	7.0	132	16.0	342	11.1	203	13.4	86
White	9.7	22,754	8.3	5,381	7.0	3,120	9.5	4,015	7.0	2,042	18.3	3,997	11.3	2,963	13.9	1,236
Multi-race	9.4	509	8.0	123	D	D	9.1	111	7.7	45	13.9	65	11.6	87	D	D
Years in graduate school																
All doctorate recipients ^h	7.7	42,646	6.9	9,902	6.7	7,208	7.7	6,482	6.7	6,972	12.7	5,543	9.3	4,095	9.3	2,444
Sex																
Male	7.4	22,970	6.8	4,615	6.7	5,185	7.9	2,683	6.9	5,458	12.3	1,815	9.3	1,971	9.3	1,243
Female	8.0	19,675	6.9	5,287	6.6	2,023	7.7	3,799	6.6	1,514	12.8	3,727	9.3	2,124	9.2	1,201
Citizenship																
U.S. citizen and permanent resident ^e	7.7	28,610	6.7	6,921	6.2	3,808	7.7	5,021	6.3	2,800	13.2	5,015	9.3	3,468	10.3	1,577
Temporary visa holder	7.5	13,882	7.5	2,939	7.2	3,368	8.0	1,439	7.2	4,156	8.8	516	9.2	608	8.2	856
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^f	9.6	115	6.4	30	D	D	9.8	21	7.2	7	11.9	36	12.3	11	D	D
Asian ^g	7.7	2,346	7.0	726	6.9	383	7.7	324	7.0	462	10.9	187	9.7	150	10.0	114
Black	9.5	1,811	7.0	301	6.7	121	8.6	304	6.7	106	12.3	643	10.5	160	12.0	176
Hispanic	8.0	1,588	6.8	383	6.7	155	8.0	343	6.3	127	11.7	305	9.3	195	11.2	80
White	7.7	21,834	6.7	5,265	6.1	3,037	7.3	3,835	6.2	2,006	13.7	3,727	9.3	2,819	10.2	1,145
Multi-race	7.6	490	6.7	122	6.1	50	7.2	108	6.3	43	11.7	61	9.2	83	11.5	23

D = suppressed to avoid disclosure of confidential information.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Includes only cases with a valid year of bachelor's award.

^e Includes those of other/unknown race/ethnicity, not shown separately.

f Includes Alaska Natives.

^g Does not include Native Hawaiians or Other Pacific Islanders.

^h Includes only cases with a valid year of graduate entry.

TABLE 20. Median age and number of doctorate recipients at different age groups, by field of study and demographic characteristics: 2008

Field of study and	Median age			Age			
demographic characteristics	at doctorate ^a	25 and under	26–30	31–35	36–40	41–45	Over 45
All fields	32.4	291	17,399	13,857	6,129	2,894	5,087
Broad field of study							
Life sciences ^b	31.4	54	4,688	3,406	1,128	443	687
Physical sciences ^c	30.3	86	4,249	2,201	614	240	219
Social sciences ^d	32.7	32	2,498	2,368	1,073	443	645
Engineering	30.5	96	3,962	2,219	690	204	192
Education	41.5	12	557	1,223	1,166	894	2,291
Humanities	34.9	D	869	1,641	946	384	560
Other fields	35.6	D	576	799	512	286	493
Sex							
Male	32.1	173	9,825	7,816	3,387	1,436	1,868
Female	32.8	118	7,574	6,041	2,742	1,458	3,219
Citizenship							
U.S. citizen and permanent resident ^e	33.0	177	11,080	7,990	4,165	2,304	4,726
Temporary visa holder	31.7	113	6,276	5,814	1,919	571	302
Race/ethnicity (U.S. citizens and permanent residents)							
American Indian ^f	36.3	D	31	28	19	14	30
Asian ^g	32.1	23	987	795	355	174	155
Black	36.6	8	469	460	362	204	502
Hispanic	33.5	10	549	530	263	148	254
White	32.7	129	8,671	5,872	3,025	1,671	3,650
Multi-race	32.2	D	205	150	61	29	66

D = suppressed to avoid disclosure of confidential information.

^a Includes only doctorate recipients with a valid year of birth.

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

 $^{^{\}mbox{\scriptsize c}}$ Includes mathematics and computer and information sciences.

^d Includes psychology.

^e Includes those of other/unknown race/ethnicity, not shown separately.

f Includes Alaska Natives.

^g Does not include Native Hawaiians or Other Pacific Islanders.

TABLE 21. Doctorate recipients indicating one or more disabilities, by selected demographic characteristics: 2008

	disab	r more vilities y type	Blind/v impa	isually aired	ortho	sical/ pedic bility		/hard aring		ning/ nitive bility		speech bility	unspe	her/ ecified ability
Demographic characteristic	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All doctorate recipients	656	1.3	65	0.1	204	0.4	117	0.2	209	0.4	18	*	103	0.2
Field of study														
Life sciences ^a	142	1.3	6	0.1	46	0.4	24	0.2	50	0.5	D	D	17	0.2
Physical sciences ^b	60	0.7	6	0.1	16	0.2	9	0.1	25	0.3	5	0.1	D	D
Social sciences ^c	132	1.8	11	0.1	37	0.5	23	0.3	43	0.6	6	0.1	26	0.3
Engineering	54	0.7	6	0.1	14	0.2	5	0.1	21	0.3	D	D	10	0.1
Education	157	2.4	22	0.3	56	0.9	40	0.6	39	0.6	D	D	25	0.4
Humanities	70	1.5	9	0.2	20	0.4	10	0.2	17	0.4	D	D	14	0.3
Other fields	41	1.4	5	0.2	15	0.5	6	0.2	14	0.5	D	D	D	D
Sex														
Male	295	1.1	32	0.1	85	0.3	57	0.2	107	0.4	D	D	33	0.1
Female	361	1.6	33	0.1	119	0.5	60	0.3	102	0.5	D	D	70	0.3
Citizenship														
U.S. citizens and														
permanent residents	615	2.0	59	0.2	187	0.6	110	0.4	D	D	D	D	D	D
Temporary visa holders	41	0.3	6	*	17	0.1	7	*	D	D	D	D	D	D

^{* =} number rounds to zero (<0.05). D = suppressed to avoid disclosure of confidential information.

NOTE: Individual doctorate recipients could report more than one disability.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer sciences.

^c Includes psychology.

TABLE 22. Primary source of financial support for doctorate recipients, by broad field of study and demographic group: 2008

				Citizensh	nip						
				U.S. citizen and			Race/ethnicity (U.S. citizens a	ind permanent re	sidents)	
Primary source of support and		Sex	(permanent	Temporary	American					
broad field of study	Total ^a	Male	Female	resident ^b	visa holder	Indian ^c	Asian ^a	Black	Hispanic	White	Multi-race
All fields	43,256	23,226	20,028	28,905	14,172	109	2,393	1,832	1,595	22,058	493
Teaching assistantships	17.7	18.0	17.3	15.9	21.2	D	13.7	8.2	13.5	17.0	D
Research assistantships/traineeships	30.8	36.2	24.6	21.4	50.0	D	32.6	10.2	14.2	21.7	23.9
Fellowships/grants	26.9	26.0	27.9	30.0	20.4	D	34.5	34.4	39.7	28.3	32.9
Own resources	19.8	14.9	25.5	27.3	4.5	32.1	15.1	41.0	28.7	D	25.4
Foreign government	1.1	1.3	0.9	0.1	3.3	D	D	D	0.5	0.1	D
Employer	3.6	3.5	3.7	5.2	0.5	D	D	D	3.4	D	D
Other	0.1	0.1	*	0.1	*	0.0	D	D	0.0	D	D
Life sciences ^e	9,975	4,638	5,337	6,915	3,023	29	733	301	379	5,256	120
Teaching assistantships	10.0	10.5	9.5	8.9	12.4	D	D	5.0	D	9.7	5.0
Research assistantships/traineeships	34.2	34.9	33.6	26.8	51.0	24.1	32.3	15.3	18.5	27.4	25.0
Fellowships/grants	41.9	43.4	40.5	47.2	29.8	41.4	49.7	58.1	61.7	45.0	55.0
Own resources	9.8	7.3	12.0	12.9	2.7	20.7	8.0	17.6	9.2	13.6	10.8
Foreign government	1.2	1.3	1.1	D	D	D	D	D	D	D	D
Employer	2.9	2.5	3.3	D	D	D	4.0	D	1.8	4.3	4.2
Other	0.1	0.1	*	D	D	0.0	D	0.0	0.0	D	0.0
Physical sciences ^f	7,281	5,244	2,037	3,816	3,427	D	389	D	158	3,036	50
Teaching assistantships	25.3	25.3	25.1	20.6	30.5	D	19.0	23.3	D	20.9	12.0
Research assistantships/traineeships	48.5	49.6	45.9	42.5	55.3	D	46.0	21.7	30.4	43.6	D
Fellowships/grants	19.3	18.1	22.5	26.3	11.4	D	25.4	38.3	43.7	25.1	D
Own resources	4.4	4.4	4.5	7.3	1.2	D	5.4	D	5.1	7.5	D
Foreign government	0.7	0.7	0.6	D	D	D	D	D	D	D	D
Employer	1.8	1.9	1.4	D	D	D	D	D	D	D	D
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social sciences ^g	6,569	2,714	3,855	5,060	1,483	21	331	309	344	3,861	108
Teaching assistantships	25.3	27.7	23.6	22.5	34.7	D	D	11.0	14.2	24.1	18.5
Research assistantships/traineeships	16.7	15.2	17.7	16.5	17.1	D	19.3	9.1	13.4	17.2	D
Fellowships/grants	27.9	28.6	27.4	26.1	33.7	38.1	33.8	36.9	34.0	23.8	26.9
Own resources	27.1	24.4	29.1	32.5	8.6	33.3	22.1	40.1	34.9	32.7	31.5
Foreign government	1.3	2.0	8.0	0.1	5.3	D	D	D	D	D	D
Employer	1.8	2.2	1.5	2.2	0.6	D	D	2.9	D	D	D
Other	*	0.0	*	*	0.0	0.0	0.0	0.0	0.0	*	0.0
Engineering	7,025	5,500	1,524	2,805	4,189	D	466	D	128	2,007	D
Teaching assistantships	8.6	8.8	8.0	5.1	11.0	D	6.7	5.8	D	D	D
Research assistantships/traineeships	61.0	61.9	57.5	44.6	72.0	D	54.1	26.2	32.0	43.9	64.4
Fellowships/grants	20.6	18.7	27.3	34.2	11.4	D	26.2	53.4	51.6	33.8	D
Own resources	4.9	5.1	3.9	8.6	2.4	D	6.4	10.7	7.8	9.0	D
Foreign government	1.6	1.5	1.8	D	D	D	D	D	D	D	D
Employer	3.3	3.9	1.4	7.5	0.6	D	D	D	D	D	D

TABLE 22. Primary source of financial support for doctorate recipients, by broad field of study and demographic group: 2008

			•	Citizensl	hip						
				U.S. citizen and			Race/ethnicity (U.S. citizens a	and permanent re	sidents)	
Primary source of support and broad field of study	Total ^a	Se. Male	x Female	permanent resident ^b	Temporary visa holder	American Indian ^c	Asian ^a	Black	Hispanic	White	Multi-race
Other	0.1	0.1	0.1	D	D	0.0	D	0.0	0.0	D	0.0
Education	5,700	1,856	3,843	5,158	527	33	194	666	311	3,837	63
Teaching assistantships	7.9	7.9	7.9	6.8	17.8	D	10.8	3.8	6.1	7.1	D
Research assistantships/traineeships	9.6	7.9	10.4	7.6	28.7	D	15.5	D	5.1	D	9.5
Fellowships/grants	10.6	10.7	10.6	10.0	16.3	24.2	8.2	17.0	14.5	8.4	11.1
Own resources	59.6	59.3	59.8	63.1	25.6	54.5	59.8	62.5	65.3	63.5	57.1
Foreign government	1.0	1.4	0.9	0.1	10.1	D	D	D	D	D	D
Employer	11.1	12.8	10.3	12.1	1.5	D	5.2	10.5	D	13.2	D
Other	0.1	0.1	0.1	0.1	0.0	0.0	0.5	D	0.0	D	D
Humanities	4,200	2,000	2,200	3,536	643	D	160	157	196	2,881	85
Teaching assistantships	35.3	33.6	36.9	34.6	38.7	D	D	16.6	32.7	36.4	30.6
Research assistantships/traineeships	1.9	1.9	1.9	D	D	D	D	D	D	D	D
Fellowships/grants	37.7	38.2	37.2	36.2	45.9	45.5	48.1	52.2	40.8	34.0	37.6
Own resources	22.8	23.4	22.3	25.4	8.9	D	21.9	D	22.4	25.7	31.8
Foreign government	0.7	0.7	0.7	D	D	D	D	D	D	D	D
Employer	1.6	2.2	1.0	D	D	D	D	D	D	1.9	D
Other	0.1	0.2	*	0.1	0.0	0.0	0.6	0.0	0.0	0.1	0.0
Other fields	2,506	1,274	1,232	1,615	880	D	120	176	79	1,180	D
Teaching assistantships	24.5	24.3	24.8	21.1	31.0	D	31.7	9.7	15.2	D	D
Research assistantships/traineeships	15.6	15.3	16.0	D	D	D	D	9.1	D	10.7	D
Fellowships/grants	22.9	23.8	22.1	20.8	26.8	D	30.0	26.1	27.8	18.3	D
Own resources	31.4	30.2	32.6	42.4	11.4	D	23.3	51.7	48.1	D	45.5
Foreign government	1.7	2.3	1.1	D	D	D	D	D	D	D	D
Employer	3.7	4.0	3.4	5.1	1.3	D	D	3.4	D	5.8	D
Other	0.1	0.2	0.0	D	D	0.0	0.0	0.0	0.0	D	0.0

^{* =} number rounds to zero (<0.05). D = suppressed to avoid disclosure of confidential information.

NOTE: Includes only doctorate recipients who reported a primary source of support.

^a Total includes 2 doctorate recipients for whom sex was not reported, 179 missing citizenship information, and 425 U.S. citizens and permanent residents with missing race/ethnicity (n=113) or racial/ethnic identifications other than those listed here (n=312).

^b Includes those of other/unknown race/ethnicity, not shown separately.

^c Includes Alaska Natives.

^d Does not include Native Hawaiians or Other Pacific Islanders.

^e Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

f Includes mathematics and computer and information sciences.

^g Includes psychology.

TABLE 23. Education-related debt of doctorate recipients, by broad field of study: 2008

Debt level	Tota	al	Life scie	nces ^a	Physical so	ciences ^b	Social sci	ences ^c	Engine	ering	Educa	tion	Human	ities	Other fi	ields
Cumulative debt																
Mean	\$17,5	544	\$15,2	25	\$10,5	16	\$27,0	83	\$10,1	149	\$22,3	51	\$23,0	133	\$22,3	75
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	23,461	52.8	5,537	54.1	4,719	63.5	2,655	39.3	4,727	66.0	2,779	46.9	1,757	41.0	1,287	49.4
\$10,000 or less	4,690	10.6	1,139	11.1	802	10.8	633	9.4	794	11.1	574	9.7	523	12.2	225	8.6
\$10,001-\$20,000	3,732	8.4	999	9.8	622	8.4	597	8.8	478	6.7	437	7.4	424	9.9	175	6.7
\$20,001-\$30,000	2,818	6.3	684	6.7	399	5.4	480	7.1	369	5.2	379	6.4	335	7.8	172	6.6
\$30,001-\$40,000	1,916	4.3	426	4.2	236	3.2	408	6.0	177	2.5	328	5.5	221	5.2	120	4.6
\$40,001-\$50,000	1,621	3.7	350	3.4	179	2.4	348	5.2	135	1.9	279	4.7	225	5.2	105	4.0
\$50,001-\$60,000	1,302	2.9	284	2.8	120	1.6	303	4.5	98	1.4	255	4.3	148	3.5	94	3.6
\$60,001-\$70,000	1,315	3.0	256	2.5	124	1.7	307	4.5	107	1.5	245	4.1	171	4.0	105	4.0
\$70,001 or more	3,545	8.0	562	5.5	236	3.2	1,018	15.1	276	3.9	648	10.9	484	11.3	321	12.3
Total	44,400	100.0	10,237	100.0	7,437	100.0	6,749	100.0	7,161	100.0	5,924	100.0	4,288	100.0	2,604	100.0
Graduate debt																
Mean	\$12,0	187	\$9,2	56	\$5,6	57	\$20,2	84	\$6,0	83	\$17,1	07	\$16,9	17	\$17,5	52
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	28,184	64.1	7,007	69.1	5,696	77.3	3,297	49.4	5,405	76.0	3,161	53.8	2,194	51.7	1,424	55.2
\$10,000 or less	3,919	8.9	888	8.8	623	8.5	574	8.6	643	9.0	518	8.8	478	11.3	195	7.6
\$10,001-\$20,000	2,532	5.8	570	5.6	301	4.1	460	6.9	316	4.4	391	6.7	329	7.8	165	6.4
\$20,001-\$30,000	1,919	4.4	390	3.8	204	2.8	407	6.1	209	2.9	318	5.4	242	5.7	149	5.8
\$30,001-\$40,000	1,564	3.6	314	3.1	146	2.0	342	5.1	132	1.9	332	5.7	180	4.2	118	4.6
\$40,001-\$50,000	1,237	2.8	239	2.4	117	1.6	279	4.2	99	1.4	230	3.9	174	4.1	99	3.8
\$50,001-\$60,000	1,030	2.3	182	1.8	71	1.0	247	3.7	69	1.0	238	4.1	133	3.1	90	3.5
\$60,001-\$70,000	1,184	2.7	209	2.1	94	1.3	289	4.3	99	1.4	243	4.1	146	3.4	104	4.0
\$70,001 or more	2,430	5.5	344	3.4	114	1.5	781	11.7	144	2.0	443	7.5	366	8.6	238	9.2
Total	43,999	100.0	10,143	100.0	7,366	100.0	6,676	100.0	7,116	100.0	5,874	100.0	4,242	100.0	2,582	100.0
Undergraduate debt																
Mean	\$5,6	34	\$6,1	15	\$4,94	49	\$7,1	15	\$4,1	50	\$5,49	91	\$6,39	98	\$5,02	27
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	32,370	73.8	7,128	70.3	5,561	75.3	4,560	68.5	5,664	80.0	4,521	77.8	2,896	68.6	2,040	79.2
\$10,000 or less	3,368	7.7	880	8.7	558	7.6	562	8.4	458	6.5	328	5.6	432	10.2	150	5.8
\$10,001–\$20,000	3,220	7.3	917	9.0	559	7.6	579	8.7	383	5.4	306	5.3	357	8.5	119	4.6
\$20,001-\$30,000	2,176	5.0	565	5.6	334	4.5	418	6.3	257	3.6	251	4.3	250	5.9	101	3.9
\$30,001-\$40,000	1,151	2.6	295	2.9	155	2.1	213	3.2	137	1.9	162	2.8	120	2.8	69	2.7
\$40,001–\$50,000	697	1.6	146	1.4	107	1.4	139	2.1	79	1.1	108	1.9	79	1.9	39	1.5
\$50,001–\$60,000	397	0.9	97	1.0	49	0.7	93	1.4	45	0.6	54	0.9	40	0.9	19	0.7

TABLE 23. Education-related debt of doctorate recipients, by broad field of study: 2008

Debt level	Total		Life scien	ces ^a	Physical sci	ences ^b	Social scie	nces ^c	Enginee	ring	Educati	on	Humani	ties	Other fie	lds
\$60,001–\$70,000	248	0.6	56	0.6	35	0.5	45	0.7	32	0.5	38	0.7	24	0.6	18	0.7
\$70,001 or more	240	0.5	51	0.5	24	0.3	49	0.7	27	0.4	46	0.8	23	0.5	20	0.8
Total	43,867	100.0	10,135	100.0	7,382	100.0	6,658	100.0	7,082	100.0	5,814	100.0	4,221	100.0	2,575	100.0

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: Mean calculations are based on all valid responses to the debt item. See appendix A for details on calculations of means.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE 24. Education-related debt of doctorate recipients, by demographic group: 2008

						Citize	nship													
		Se	NY.		U.S. citiz		T					Racele	ethnicity (U	S citizano	and nerm	nanent reci	idents)			
Debt level	Male		Fem	ale	resid		Temp visa h	•	Americar	n Indian ^b	Asi		Bla		Hisp:		Wh	ite	Multi-	-race
Cumulative debt																-				
Mean	\$16,0	39	\$19,	289	\$22,	185	\$8,0	063	\$29,	698	\$13.	216	\$38,	586	\$27,	553	\$21,	299	\$25,	,761
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	13,020	54.6	10,439	50.7	12,764	42.9	10,595	73.1	37	31.9	1,469	59.8	493	25.6	548	33.2	9,829	43.4	189	37.4
\$10,000 or less	2,633	11.1	2,057	10.0	3,158	10.6	1,516	10.5	9	7.8	231	9.4	191	9.9	202	12.2	2,418	10.7	60	11.9
\$10,001-\$20,000	2,034	8.5	1,698	8.3	3,085	10.4	639	4.4	11	9.5	203	8.3	152	7.9	175	10.6	2,433	10.8	57	11.3
\$20,001-\$30,000	1,475	6.2	1,343	6.5	2,422	8.1	383	2.6	16	13.8	172	7.0	124	6.4	140	8.5	1,899	8.4	37	7.3
\$30,001-\$40,000	974	4.1	942	4.6	1,616	5.4	295	2.0	7	6.0	97	3.9	129	6.7	102	6.2	1,221	5.4	26	5.1
\$40,001-\$50,000	788	3.3	833	4.0	1,398	4.7	216	1.5	8	6.9	61	2.5	128	6.6	105	6.4	1,046	4.6	33	6.5
\$50,001-\$60,000	626	2.6	676	3.3	1,143	3.8	155	1.1	D	D	56	2.3	118	6.1	93	5.6	844	3.7	12	2.4
\$60,001-\$70,000	630	2.6	685	3.3	1,124	3.8	187	1.3	D	D	42	1.7	127	6.6	82	5.0	831	3.7	25	4.9
\$70,001 or more	1,648	6.9	1,897	9.2	3,025	10.2	511	3.5	16	13.8	127	5.2	465	24.1	206	12.5	2,107	9.3	67	13.2
Total	23,828	100.0	20,570	100.0	29,735	100.0	14,497	100.0	116	100.0	2,458	100.0	1,927	100.0	1,653	100.0	22,628	100.0	506	100.0
Graduate debt																				
Mean	\$10,6	44	\$13,	761	\$15,	171	\$5,8	335	\$20,	609	\$8,	430	\$27,	805	\$18,	865	\$14,	534	\$17,	,241
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	15,693	66.4	12,489	61.3	16,879	57.4	11,185	77.5	51	44.3	1,778	72.9	712	37.3	798	49.0	13,010	58.1	263	52.4
\$10,000 or less	2,151	9.1	1,768	8.7	2,639	9.0	1,272	8.8	10	8.7	174	7.1	166	8.7	178	10.9	2,031	9.1	46	9.2
\$10,001-\$20,000	1,374	5.8	1,158	5.7	1,992	6.8	533	3.7	13	11.3	117	4.8	129	6.8	133	8.2	1,516	6.8	49	9.8
\$20,001-\$30,000	955	4.0	964	4.7	1,580	5.4	331	2.3	9	7.8	93	3.8	109	5.7	72	4.4	1,254	5.6	22	4.4
\$30,001-\$40,000	751	3.2	813	4.0	1,277	4.3	283	2.0	D	D	69	2.8	125	6.6	83	5.1	959	4.3	21	4.2
\$40,001-\$50,000	588	2.5	649	3.2	1,038	3.5	194	1.3	D	D	48	2.0	102	5.3	76	4.7	763	3.4	26	5.2
\$50,001-\$60,000	450	1.9	580	2.8	907	3.1	121	0.8	5	4.3	34	1.4	122	6.4	68	4.2	668	3.0	7	1.4
\$60,001-\$70,000	568	2.4	616	3.0	974	3.3	205	1.4	5	4.3	35	1.4	129	6.8	65	4.0	705	3.2	25	5.0
\$70,001 or more	1,090	4.6	1,340	6.6	2,119	7.2	306	2.1	12	10.4	92	3.8	313	16.4	157	9.6	1,474	6.6	43	8.6
Total	23,620	100.0	20,377	100.0	29,405	100.0	14,430	100.0	115	100.0	2,440	100.0	1,907	100.0	1,630	100.0	22,380	100.0	502	100.0
Undergraduate debt																				
Mean	\$5,54	17	\$5,7	'35	\$7,2	:66	\$2,2	286	\$9,3	348	\$4,8	887	\$11,	268	\$9,0)77	\$7,0	000	\$8,	795
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	17,432	73.9	14,936	73.6	19,609	66.7	12,637	88.3	72	62.6	1,823	74.8	1,079	57.0	963	59.1	15,064	67.3	318	63.9
\$10,000 or less	1,860	7.9	1,508	7.4	2,648	9.0	708	4.9	9	7.8	189	7.8	197	10.4	185	11.3	1,974	8.8	53	10.6
\$10,001-\$20,000	1,683	7.1	1,537	7.6	2,859	9.7	351	2.5	10	8.7	195	8.0	184	9.7	179	11.0	2,206	9.9	45	9.0
\$20,001-\$30,000	1,149	4.9	1,027	5.1	1,946	6.6	218	1.5	12	10.4	121	5.0	154	8.1	133	8.2	1,472	6.6	27	5.4
\$30,001-\$40,000	612	2.6	539	2.7	980	3.3	168	1.2	D	D	51	2.1	102	5.4	74	4.5	716	3.2	15	3.0
\$40,001-\$50,000	383	1.6	314	1.5	599	2.0	95	0.7	D	D	25	1.0	66	3.5	41	2.5	442	2.0	17	3.4
\$50,001-\$60,000	203	0.9	194	1.0	344	1.2	53	0.4	D	D	17	0.7	43	2.3	29	1.8	238	1.1	10	2.0

TABLE 24. Education-related debt of doctorate recipients, by demographic group: 2008

						Citizer	nship													
		Se	ex		U.S. citize permar		Tempo	rary				Race/et	hnicity (U.	S. citizens	and perma	anent resi	dents)			
Debt level	Male	Э	Fema	ale	reside	nt ^a	visa ho	lder	American	Indian ^b	Asia	n ^c	Blac	k	Hispa	nic	Whit	е	Multi-r	ace
\$60,001–\$70,000	129	0.5	119	0.6	206	0.7	40	0.3	D	D	10	0.4	27	1.4	12	0.7	144	0.6	5	1.0
\$70,001 or more	124	0.5	116	0.6	203	0.7	37	0.3	D	D	7	0.3	41	2.2	14	0.9	127	0.6	8	1.6
Total	23,575	100.0	20,290	100.0	29,394	100.0	14,307	100.0	115	100.0	2,438	100.0	1,893	100.0	1,630	100.0	22,383	100.0	498	100.0

D = suppressed to avoid disclosure of confidential information.

NOTES: Mean calculations are based on all valid responses to the debt item. See appendix A for details on calculations of means.

^a Includes those of other/unknown race/ethnicity, not shown separately.

^b Includes Alaska Natives.

^c Does not include Native Hawaiians and Other Pacific Islanders.

TABLE 25. U.S. citizen and permanent resident doctorate recipients reporting graduate-school debt and percentage with levels of graduate-school debt greater than \$30,000, by broad field of study and race/ethnicity: 2008

	To	tal	America	n Indian ^a	Asi	an ^b	Bla	ack	Hisp	anic	Wh	nite	Multi	-race	Other/u	nknown ^c
Broad field of study	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All fields	29,405	21.5	115	27.8	2,440	11.4	1,907	41.5	1,630	27.5	22,380	20.4	502	24.3	431	17.2
Life sciences ^d	7,019	15.3	30	30.0	749	11.2	311	32.5	385	17.4	5,328	14.6	121	15.7	95	16.8
Physical sciences ^e	3,845	9.3	D	D	399	6.0	122	22.1	155	12.9	3,054	9.0	D	D	58	8.6
Social sciences ^f	5,134	35.0	21	28.6	339	17.7	322	55.0	353	42.5	3,906	34.2	110	40.0	83	31.3
Engineering	2,827	7.2	7	D	470	3.8	104	13.5	131	9.9	2,020	7.6	44	D	51	2.0
Education	5,330	25.9	36	30.6	194	24.2	705	43.3	325	36.0	3,947	21.9	63	25.4	60	28.3
Humanities	3,578	26.6	D	D	164	18.9	158	46.2	199	25.6	2,912	26.2	86	27.9	D	D
Other fields	1,672	32.9	D	D	125	11.2	185	50.8	82	37.8	1,213	32.6	D	D	D	D

D = suppressed to avoid disclosure of confidential information.

NOTES: Number cells represent the total number of U.S. citizen and permanent resident doctorate recipients reporting graduate school debt. Percentage cells represent doctorate recipients with levels of graduate school debt greater than \$30,000 and are calculated on the number of cases listed in the adjacent cell.

^a Includes Alaska Natives.

^b Does not include Native Hawaiians and Other Pacific Islanders.

^c Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

^d Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^e Includes mathematics and computer and information sciences.

f Includes psychology.

TABLE 26. Postgraduation commitment of doctorate recipients, by broad field of study: Selected years, 1988–2008

		Life	Physical	Social				
Commitment status	All fields	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
				Numb	er			
All doctorate recipients								
1988	33,497	6,222	5,250	5,947	4,186	6,361	3,389	2,142
1993	39,800	7,463	6,428	6,759	5,698	6,689	4,267	2,496
1998	42,638	8,612	6,670	7,289	5,922	6,569	5,295	2,281
2003	40,758	8,508	5,830	7,003	5,281	6,643	5,193	2,300
2008	48,802	11,088	8,129	7,509	7,862	6,578	4,722	2,914
All responses to postgraduation commitment								
1988	30,223	5,681	4,744	5,294	3,707	5,797	3,107	1,893
1993	36,546	6,941	5,883	6,208	5,165	6,116	3,960	2,273
1998	38,243	7,817	6,052	6,393	5,335	5,792	4,811	2,043
2003	36,863	7,865	5,396	6,239	4,873	5,747	4,752	1,991
2008	43,458	10,053	7,324	6,618	6,977	5,782	4,201	2,503
				Perce	nt ^d			
Definite commitment for employment or postdoctoral study								
1988	73.5	76.2	76.4	71.5	67.3	75.7	65.0	82.2
1993	67.0	73.3	66.0	65.7	55.7	73.0	59.9	75.6
1998	69.7	71.8	71.6	67.9	69.8	73.7	58.4	76.4
2003	71.3	72.1	73.6	73.2	64.6	75.7	64.1	77.3
2008	68.9	65.6	70.9	72.6	64.6	73.3	64.3	76.1
No definite commitment for								
employment or postdoctoral study ^{e, f}								
1988	26.5	23.8	23.6	28.5	32.7	24.3	35.0	17.8
1993	33.0	26.7	34.0	34.3	44.3	27.0	40.1	24.4
1998	30.3	28.2	28.4	32.1	30.2	26.3	41.6	23.6
2003	28.7	27.9	26.4	26.8	35.4	24.3	35.9	22.7
2008	31.1	34.4	29.1	27.4	35.4	26.7	35.7	23.9

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percent calculated on those responding to the item on postgraduation commitment.

^e Includes respondents who indicated 'other' in all years and respondents who indicated "do not plan to work or study" in 2008.

f Includes 767 respondents for 2008 who indicated definite plans for "other full-time degree program."

TABLE 27. Postgraduation commitment of doctorate recipients, by selected demographic groups: Selected years, 1988–2008

				Citizensh	nip ^a						
				U.S. citizen and		Race/	ethnicity (U	.S. citizens	and perman	ent reside	nts) ^b
		S	ex	permanent	Temporary	American					
Commitment status	Total	Men	Women	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
					Nι	ımber					
All doctorate recipients											
1988 ^f	33,497	21,677	11,819	24,914	6,241	94	1,236	965	694	21,459	na
1993 ⁹	39,800	24,386	15,122	28,717	9,964	119	2,005	1,278	974	24,043	na
1998 ^h	42,638	24,630	17,848	31,195	9,462	188	2,729	1,603	1,331	24,288	na
2003	40,758	22,255	18,503	28,146	10,595	137	2,046	1,797	1,430	21,563	365
2008 ⁱ	48,802	26,271	22,496	30,791	15,246	123	2,543	2,030	1,765	23,208	520
All responses to postgraduation commitment											
1988	30,223	19,428	10,795	24,372	5,828	92	1,162	934	677	21,099	na
1993	36,546	22,534	14,006	27,366	9,170	112	1,839	1,181	918	23,123	na
1998	38,243	22,167	16,041	29,375	8,799	172	2,579	1,487	1,211	23,254	na
2003	36,863	20,191	16,672	26,812	9,976	124	1,981	1,616	1,359	20,733	364
2008	43,458	23,295	20,163	29,238	14,139	116	2,392	1,878	1,615	22,309	499
					Pe	ercent ^j					
Definite commitment for employment or postdoctoral study											
1988	73.5	74.4	71.7	74.8	67.7	69.6	66.5	68.6	72.1	75.7	na
1993	67.0	66.2	68.2	70.1	57.8	67.0	59.2	65.1	68.2	71.4	na
1998	69.7	70.5	68.5	71.0	65.5	62.8	66.2	65.6	70.3	72.2	na
2003	71.3	72.3	70.2	72.5	68.2	66.1	65.9	68.9	70.5	73.8	70.6
2008	68.9	69.7	67.9	70.3	66.0	74.1	61.5	64.2	65.6	72.3	67.9
No definite commitment for											
employment or postdoctoral studyk											
1988	26.5	25.6	28.3	25.2	32.3	30.4	33.5	31.4	27.9	24.3	na
1993	33.0	33.8	31.8	29.9	42.2	33.0	40.8	34.9	31.8	28.6	na
1998	30.3	29.5	31.5	29.0	34.5	37.2	33.8	34.4	29.7	27.8	na
2003	28.7	27.7	29.8	27.5	31.8	33.9	34.1	31.1	29.5	26.2	29.4
2008	31.1	30.3	32.1	29.7	34.0	25.9	38.5	35.8	34.4	27.7	32.1

na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

^b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include Native Hawaiians or Other Pacific Islanders.

^c Includes those of other/unknown race/ethnicity, not shown separately.

^d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–08.

^f Group total for 1988 includes 1 doctorate recipients for whom sex was not reported.

⁹ Group total for 1993 includes 292 doctorate recipients for whom sex was not reported.

^h Group total for 1998 includes 160 doctorate recipients for whom sex was not reported.

ⁱ Group total for 2008 includes 35 doctorate recipients for whom sex was not reported.

¹Percent calculated on those responding to the item on postgraduation commitment.

k Includes respondents who indicated 'other' in all years and respondents who indicated "do not plan to work or study" in 2008.

TABLE 28. Postgraduation plans of doctorate recipients with definite commitments, by broad field of study: Selected years, 1988–2008

Definite commitments		Life	Physical	Social				
and plan	All fields	sciencesa	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
				Numb	er			
All definite commitments								
1988	22,200	4,331	3,626	3,784	2,495	4,389	2,019	1,556
1993	24,480	5,087	3,884	4,078	2,876	4,464	2,372	1,719
1998	26,643	5,609	4,332	4,342	3,722	4,266	2,812	1,560
2003	26,294	5,669	3,973	4,567	3,149	4,352	3,044	1,540
2008	29,939	6,595	5,193	4,802	4,508	4,236	2,701	1,904
Definite commitments with responses to type of plans								
1988	22,036	4,320	3,613	3,752	2,484	4,327	1,996	1,544
1993	24,362	5,075	3,876	4,058	2,867	4,429	2,347	1,710
1998	26,078	5,536	4,286	4,255	3,669	4,091	2,724	1,517
2003	26,208	5,653	3,964	4,558	3,139	4,323	3,037	1,534
2008	28,991	6,427	5,076	4,636	4,367	4,043	2,609	1,833
				Percei	nt ^d			
Employment								
1988	73.5	39.7	51.0	84.1	80.0	95.5	93.1	97.4
1993	71.0	36.2	49.8	80.0	74.7	96.9	93.5	97.1
1998	70.9	39.0	54.1	75.7	80.2	95.5	91.7	95.6
2003	67.2	37.3	47.0	72.0	68.3	94.0	89.5	93.9
2008	63.8	34.0	46.7	67.3	69.2	94.9	86.3	93.0
Postdoctoral study								
1988	26.5	60.3	49.0	15.9	20.0	4.5	6.9	2.6
1993	29.0	63.8	50.2	20.0	25.3	3.1	6.5	2.9
1998	29.1	61.0	45.9	24.3	19.8	4.5	8.3	4.4
2003	32.8	62.7	53.0	28.0	31.7	6.0	10.5	6.1
2008	36.2	66.0	53.3	32.7	30.8	5.1	13.7	7.0

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percentages are based on the number reporting definite commitments with responses to type of plan (employment or postdoctoral study).

TABLE 29. Employment sector of doctorate recipients with definite postgraduation employment commitments in the United States, by broad field of study: Selected years, 1988-2008

Employment		Life	Physical	Social						
commitments and sector	Total	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields		
	Number									
All U.S. employment commitments										
1988	14,628	1,369	1,656	2,909	1,695	3,894	1,751	1,354		
1993	15,029	1,474	1,641	2,790	1,660	4,052	2,010	1,402		
1998	16,551	1,809	2,113	2,827	2,565	3,674	2,281	1,282		
2003	15,633	1,755	1,695	2,831	1,744	3,828	2,537	1,243		
2008	16,845	1,939	2,185	2,725	2,713	3,690	2,087	1,506		
	Percent ^d									
Academe										
1988	50.4	51.6	40.0	46.8	32.1	43.5	79.4	74.8		
1993	51.7	49.9	39.2	50.6	23.3	44.6	85.2	76.3		
1998	45.9	42.0	30.3	51.2	11.6	46.6	79.7	71.3		
2003	54.4	50.7	42.0	57.9	21.7	48.5	82.3	75.3		
2008	51.1	48.7	33.6	61.9	15.2	50.5	85.8	77.9		
Industry/business ^e										
1988	20.7	23.1	47.5	18.2	54.2	7.2	5.4	8.0		
1993	20.3	24.8	49.1	17.0	60.2	5.3	3.3	8.8		
1998	28.5	28.2	56.8	19.0	73.5	6.8	6.8	14.1		
2003	20.8	25.0	45.6	17.4	62.7	4.7	5.2	11.0		
2008	26.7	27.7	55.5	14.3	73.3	3.8	3.0	11.2		
Government										
1988	10.1	16.9	10.1	13.3	12.0	8.9	3.5	5.9		
1993	9.1	15.5	8.9	13.0	13.0	7.4	1.9	5.6		
1998	7.1	11.1	6.7	10.9	10.8	4.1	1.9	4.5		
2003	7.5	13.4	9.2	9.9	12.6	4.4	1.7	5.5		
2008	6.3	12.1	5.9	9.5	7.5	3.7	2.0	3.6		
Nonprofit										
1988	7.3	6.1	1.7	15.4	0.9	6.2	7.2	9.7		
1993	6.0	7.1	1.6	11.8	2.7	4.5	5.5	7.8		
1998	5.3	6.9	1.6	10.6	2.2	4.8	4.3	6.5		
2003	6.0	8.5	2.5	9.8	2.5	4.4	6.5	6.7		
2008	4.7	7.5	2.2	8.3	2.4	4.2	4.1	4.1		
Other/unknown ^f										
1988	11.4	2.3	0.7	6.4	8.0	34.2	4.4	1.6		
1993	12.9	2.7	1.2	7.6	8.0	38.2	4.0	1.5		
1998	13.2	11.8	4.6	8.2	1.8	37.7	7.2	3.6		
2003	11.4	2.3	0.6	5.0	0.5	38.0	4.2	1.5		
2008	11.2	3.9	2.8	5.9	1.5	37.8	5.2	3.3		

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percent based on those with definite employment commitments in the United States.

^e Includes doctorate recipients who indicated self-employment.

[&]quot;Other" is mainly composed of elementary and secondary schools.

TABLE 30. Employment sector of doctorate recipients with definite postgraduation employment commitments in the United States, by selected demographic characteristics: Selected years, 1988–2008

		Sex		Citizenship ^a							
Employment commitments and sector				U.S. citizen and permanent	Temporary	Race/ethnicity (U.S. citizens and permanent residents) ^b					
	Total					American			-		
		Male	Female	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
						Number					
All employment commitments											
1988	14,628	9,007	5,621	13,442	1,178	49	499	545	344	11,815	na
1993 ^f	15,029	8,371	6,657	13,676	1,350	64	577	622	446	11,899	na
1998 ⁹	16,551	9,301	7,247	14,530	2,008	85	954	753	588	11,880	na
2003	15,633	8,097	7,536	13,418	2,191	66	717	852	677	10,687	156
2008	16,845	8,759	8,086	13,025	3,793	D	818	837	619	10,332	201
					ı	Percent ^h					
Academe						Oroone					
1988	50.4	47.6	55.0	49.3	63.3	40.8	35.3	55.6	52.6	49.5	na
1993	51.7	47.0	57.6	51.6	52.3	56.3	43.7	55.5	57.8	51.6	na
1998	45.9	39.7	53.8	48.2	29.1	52.9	27.4	49.8	56.0	49.3	na
2003	54.4	50.4	58.6	54.9	51.1	48.5	42.0	53.9	58.9	55.5	60.9
2008	51.1	44.6	58.1	54.9	37.8	D	41.7	50.8	56.5	56.4	D
Industry/business ⁱ											
1988	20.7	25.3	13.4	20.2	27.1	12.2	44.7	9.4	16.6	19.7	na
1993	20.3	26.5	12.5	18.5	38.8	7.8	40.0	8.2	15.7	18.1	na
1998	28.5	37.9	16.5	23.7	63.5	16.5	52.6	12.7	13.8	22.5	na
2003	20.8	27.7	13.3	17.2	42.4	16.7	38.1	10.3	12.6	16.8	13.5
2008	26.7	36.1	16.5	18.3	55.7	D	39.9	10.5	15.5	17.3	19.9
Government											
1988	10.1	11.2	8.3	10.7	3.5	20.4	8.6	11.2	11.9	10.7	na
1993	9.1	10.2	7.8	9.8	2.3	17.2	7.8	9.3	11.7	9.8	na
1998	7.1	8.1	5.9	7.9	1.6	7.1	6.6	7.7	7.1	8.1	na
2003	7.5	8.6	6.3	8.5	1.6	13.6	9.6	8.8	6.9	8.4	9.0
2008	6.3	6.9	5.7	7.7	1.5	D	8.1	9.9	6.6	7.3	D
Nonprofit											
1988	7.3	6.7	8.4	7.8	1.6	10.2	6.2	4.8	7.3	8.1	na
1993	6.0	5.8	6.3	6.4	2.1	3.1	4.3	3.7	4.5	6.8	na
1998	5.3	4.3	6.6	5.7	2.1	4.7	5.2	4.5	5.8	5.8	na
2003	6.0	5.4	6.6	6.5	2.7	4.5	6.6	5.0	6.6	6.7	4.5
2008	4.7	3.9	5.5	5.4	2.3	D	5.0	6.7	6.0	5.3	3.5
Other/unknown ^j											
1988	11.4	9.2	15.0	12.1	4.5	16.3	5.2	19.1	11.6	12.0	na
1993	12.9	10.5	15.8	13.7	4.5	15.6	4.2	23.3	10.3	13.8	na
1998	13.2	10.0	17.4	14.5	3.6	18.8	8.2	25.2	17.3	14.2	na
2003	11.4	7.9	15.1	12.9	2.2	16.7	3.8	21.9	14.9	12.6	12.2
2008	11.4	8.5	14.2	13.8	2.6	10.7 D	5.4	22.1	15.3	13.7	8.5

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

^b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

 $^{^{\}rm c}$ Includes those of other/unknown race/ethnicity, not shown separately.

^d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–08.

^fTotal for 1993 includes 1 respondents not reporting sex.

⁹ Total for 1998 includes 3 respondents not reporting sex.

^h Percent based on those with definite employment commitments and sector.

ⁱ Includes doctorate recipients who indicated self-employment.

^j "Other" is mainly composed of elementary and secondary schools.

TABLE 31. Postgraduation plans of doctorate recipients with definite commitments, by demographic group: Selected years, 1988–2008

				Citizer	nship ^b						
				U.S. citizen and		Rac	e/ethnicity (l	J.S. citizens	s and perman	ent resident	s) ^c
Definite commitments		Se	ex ^a	permanent	Temporary visa	American					
and plan	Total	Male	Female	resident ^d	holder	Indian ^e	Asian [†]	Black	Hispanic	White	Multi-race
					1	Number					
All definite commitments											
1988	22,200	14,462	7,738	18,240	3,944	64	773	641	488	15,981	na
1993	24,480	14,919	9,559	19,176	5,298	75	1,088	769	626	16,504	na
1998	26,643	15,634	10,987	20,846	5,762	108	1,708	975	851	16,779	na
2003	26,294	14,594	11,700	19,438	6,802	82	1,305	1,114	958	15,303	257
2008	29,939	16,244	13,695	20,556	9,326	86	1,470	1,206	1,059	16,122	339
Definite commitments with											
responses to type of plans											
1988	22,036	14,364	7,672	18,113	3,907	63	766	635	482	15,877	na
1993	24,362	14,858	9,502	19,090	5,266	75	1,080	763	624	16,435	na
1998	26,078	15,348	10,711	20,413	5,637	105	1,685	927	828	16,458	na
2003	26,208	14,548	11,660	19,391	6,770	82	1,299	1,110	955	15,275	256
2008	28,991	15,792	13,199	19,862	9,073	81	1,431	1,151	1,014	15,598	325
					F	Percent ^g					
Employment											
1988	73.5	71.6	77.0	75.5	64.5	82.5	70.0	87.7	73.4	75.4	na
1993	71.0	68.4	75.1	73.9	60.7	85.3	60.9	83.5	74.0	74.3	na
1998	70.9	69.6	72.8	73.6	61.2	82.9	61.4	83.4	75.1	74.3	na
2003	67.2	64.7	70.4	70.9	56.7	81.7	59.1	77.7	72.9	71.5	62.5
2008	63.8	61.9	66.0	67.1	56.5	D	60.0	73.4	62.5	67.7	63.7
Postdoctoral study											
1988	26.5	28.4	23.0	24.5	35.5	17.5	30.0	12.3	26.6	24.6	na
1993	29.0	31.6	24.9	26.1	39.3	14.7	39.1	16.5	26.0	25.7	na
1998	29.1	30.4	27.2	26.4	38.8	17.1	38.6	16.6	24.9	25.7	na
2003	32.8	35.3	29.6	29.1	43.3	18.3	40.9	22.3	27.1	28.5	37.5
2008	36.2	38.1	34.0	32.9	43.5	D	40.0	26.6	37.5	32.3	36.3

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom sex was not reported.

^b Does not include doctorate recipients for whom citizenship was not reported.

^c Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

^d Includes those of other/unknown race/ethnicity, not shown separately.

^e Includes Alaska Natives.

f Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–08.

⁹ Percentages are based on the number reporting definite commitments with responses to type of plan (employment or postdoctoral study).

TABLE 32. Sources of support for doctorate recipients with postgraduation commitment for postdoctoral study, by selected demographic characteristics: Selected years, 1988-2008

				Citizensh	nip ^a						
				U.S. citizen and		Rac	ce/ethnicity (l	J.S. citizens	s and permane	ent resident	s) ^b
Postgraduate study commitment and		S	ex	permanent	Temporary	American		_			
source of support	Total	Male	Female	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
					N	lumber					
All postgraduate study											
commitments											
1988	5,839	4,077	1,762	4,444	1,388	11	230	78	128	3,904	na
1993 ^f	7,060	4,697	2,362	4,990	2,068	11	422	126	162	4,229	na
1998 ⁹	7,581	4,664	2,914	5,383	2,186	18	650	154	206	4,234	na
2003	8,588	5,141	3,447	5,638	2,933	15	531	248	259	4,347	96
2008	10,503	6,009	4,494	6,536	3,947	D	573	306	380	5,041	118
					P	ercent ^h					
U.S. government						Oroont					
1988	40.9	40.0	43.0	46.9	21.7	54.5	41.7	24.4	41.4	48.0	na
1993	35.2	34.1	37.3	42.6	17.3	45.5	37.0	33.3	38.9	43.5	na
1998	36.4	36.6	36.0	42.3	22.0	50.0	39.1	36.4	34.0	43.6	na
2003	32.9	33.7	31.8	39.7	19.8	53.3	39.9	28.2	35.9	40.9	42.7
2008	29.2	29.0	29.5	35.3	19.0	D	34.0	31.7	35.8	36.1	28.0
College or university											
1988	25.0	27.8	18.7	19.2	43.7	9.1	23.0	26.9	20.3	18.8	na
1993	28.7	31.3	23.5	21.5	46.2	9.1	27.0	25.4	19.1	21.0	na
1998	31.5	33.6	28.1	26.8	43.0	22.2	27.7	24.0	35.4	26.3	na
2003	41.5	42.8	39.7	35.0	54.1	20.0	36.3	39.5	37.5	34.5	30.2
2008	45.3	46.3	44.0	40.2	53.8	36.4	43.3	46.7	39.2	39.2	45.8
Private foundation											
1988	10.1	9.2	12.1	10.6	8.2	9.1	8.3	10.3	8.6	10.9	na
1993	9.8	9.3	10.6	9.9	9.4	0.0	9.0	15.9	13.6	9.7	na
1998	9.8	9.5	10.3	9.7	10.0	5.6	10.8	10.4	8.7	9.5	na
2003	5.8	5.3	6.6	6.4	4.8	6.7	4.3	6.9	6.9	6.5	8.3
2008	5.0	4.7	5.5	5.5	4.3	27.3	4.2	3.9	5.0	5.7	0.0 D
Nonprofit, other than private											
foundation											
1988	2.7	2.6	2.8	2.3	3.8	0.0	5.2	5.1	3.9	2.0	na
1993	2.5	2.5	2.6	2.2	3.3	0.0	0.9	1.6	2.5	2.4	na
1998	3.1	2.8	3.4	2.6	4.2	0.0	2.5	3.2	1.0	2.7	na
2003	3.7	3.0	4.9	3.8	3.6	0.0	3.8	4.8	3.9	3.8	4.2
2008	3.1	2.6	3.8	2.8	3.5	D	1.9	4.6	2.9	2.8	D
Other											
1988	8.6	8.8	8.1	8.3	9.5	9.1	7.8	7.7	7.8	8.2	na
1993	10.4	10.1	10.9	10.3	10.4	9.1	9.7	7.1	11.7	10.5	na

TABLE 32. Sources of support for doctorate recipients with postgraduation commitment for postdoctoral study, by selected demographic characteristics: Selected years, 1988-2008

				Citizensh	nip ^a						
				U.S. citizen and		Rac	e/ethnicity (l	J.S. citizens	s and permane	nt resident	s) ^b
Postgraduate study commitment and		Se	ex	permanent	Temporary	American					
source of support	Total	Male	Female	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
1998	7.4	6.8	8.4	7.0	8.4	5.6	6.3	5.8	10.2	7.1	na
2003	8.8	8.8	8.7	7.9	10.4	6.7	8.9	8.1	6.9	7.9	7.3
2008	10.1	10.8	9.2	9.1	11.8	D	8.6	5.6	7.4	9.5	11.0
Unknown											
1988	12.8	11.7	15.3	12.6	13.1	18.2	13.9	25.6	18.0	12.2	na
1993	13.4	12.6	15.1	13.4	13.3	36.4	16.4	16.7	14.2	12.9	na
1998	11.9	10.6	13.9	11.6	12.4	16.7	13.7	20.1	10.7	10.8	na
2003	7.2	6.4	8.3	7.1	7.2	13.3	6.8	12.5	8.9	6.5	7.3
2008	7.2	6.7	8.0	7.1	7.5	D	8.0	7.5	9.7	6.7	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

^c Includes those of other/unknown race/ethnicity, not shown separately.

^d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–08.

^f Total for 1993 includes 1 respondent not reporting sex.

 $^{^{\}rm g}$ Total for 1998 includes 3 respondents not reporting sex.

^h Percent based on those with definite commitments for postdoctoral study or training.

TABLE 33. Postgraduation location of temporary visa holder doctorate recipients with definite postgraduation commitments: Selected years, 1988–2008

Year	All definite commitments	Definite commitments with response to location	U.S. location	Foreign location
		Number	Perce	ent ^a
1988	3,944	3,907	59.5	40.5
1993	5,298	5,266	55.7	44.3
1998	5,762	5,597	68.4	31.6
2003	6,802	6,747	68.6	31.4
2008	9,326	9,059	78.2	21.8

^a Percent based on those with definite commitments with response to location.

TABLE 34. Postgraduation location and type of commitment of temporary visa holder doctorate recipients with definite postgraduation commitments, by major field of study: 2008 (Percent)

	Number of	U.S. location	l	Foreign location	
Field of study	responses	Employment	Study	Employment	Study
All fields	9,059	41.9	36.4	14.6	7.1
Life sciences	1,960	15.7	65.3	10.3	8.7
Agricultural sciences/natural resources	279	19.4	42.3	26.2	12.2
Biological/biomedical sciences	1,422	10.8	75.4	5.1	8.6
Health sciences	259	38.6	34.7	21.2	5.4
Physical sciences	2,302	38.4	44.2	6.7	10.7
Chemistry	582	28.0	59.8	4.8	7.4
Computer sciences	610	64.9	20.5	7.9	6.7
Earth, atmospheric, and marine sciences	196	24.5	53.1	9.2	13.3
Mathematics	411	43.8	33.6	8.8	13.9
Physics and astronomy	503	19.5	60.0	4.8	15.7
Social sciences	1,043	45.0	16.1	30.8	8.1
Anthropology	42	19.0	D	D	21.4
Economics	25	60.0	D	D	D
Political science/international relations	162	42.0	9.9	35.8	12.3
Psychology	150	25.3	44.7	18.7	11.3
Sociology	72	41.7	15.3	30.6	12.5
Other social sciences	592	52.4	9.3	33.3	5.1
Engineering	2,470	56.2	28.6	11.3	3.9
Aerospace/aeronautical engineering	71	42.3	33.8	D	D
Chemical and related engineering	297	56.2	28.3	11.1	4.4
Civil and related engineering	290	49.3	33.4	13.4	3.8
Electrical and related engineering	807	68.4	19.7	9.7	2.2
Industrial engineering	89	71.9	13.5	D	D
Materials/metallurgical engineering	209	47.4	33.0	13.4	6.2
Mechanical and related engineering	378	54.8	31.7	10.8	2.6
Other engineering	329	38.6	43.2	10.0	8.2
Education	279	43.7	14.0	40.1	2.2
Education administration	33	27.3	D	57.6	D
Education research	143	46.2	D	36.4	D
Teacher education	13	38.5	D	D	D
Teaching fields	74	43.2	D	40.5	D
Other education	16	62.5	D	D	D
Humanities	389	56.0	13.4	23.9	6.7
American literature	11	45.5	D	D	D
English language and literature	29	55.2	D	24.1	D
Foreign language and literature	110	80.0	6.4	D	D
History	79	44.3	17.7	20.3	17.7
Other humanities	160	46.3	15.0	34.4	4.4
Other fields	616	65.3	5.2	26.9	2.6
Business and management	428	71.7	D	24.5	D
Communication	74	64.9	D	25.7	D
Fields not elsewhere classified	114	41.2	13.2	36.8	8.8

D = suppressed to avoid disclosure of confidential information.

NOTES: Postdoctoral plans are categorized as either employment or study. Major field of study definitions are detailed in appendix B. Percentages are based on the number of temporary visa holders reporting definite commitments with responses to type of plan (employment or postdoctoral study) and location (U.S. or foreign).

TABLE 35. Temporary visa holder doctorate recipients intending to stay in the United States after doctorate receipt, by country of citizenship: 2002–08

Place of Coligin		Total, 20	002–2008	20	002	20	003	20	004	20	005	20	006	20	007	20	800
Africa 3.3.05 62.4 368 59.0 394 57.9 456 54.8 497 61.4 520 65.0 560 68.8 510 65.5 Egypt 641 599 99 55.6 120 60.0 130 60.8 147 51.7 128 62.5 113 66.4 104 64.4 63.6 63.6 63.6 63.6 63.6 63.6 63.	Place of origin	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying
Egypt	All temporary visa holders	89,323	70.7	9,747	67.1	10,595	65.7	11,622	66.4	12,831	70.2	14,155	72.9	15,127	75.1	15,246	73.5
Chana Carr	Africa	3,305	62.4	368	59.0	394	57.9	456	54.6	497	61.4	520	65.0	560	69.8	510	65.5
Negria 227 793 15 100 0 24 708 19 759 26 63 75 76 76 76 76 76 76 76	Egypt	841	59.9	99	55.6	120	60.0	130	60.8	147	51.7	128	62.5	113	66.4	104	64.4
Nigeria 227 79.3 16 100.0 24 70.8 19 57.9 26 76.9 33 78.8 52 90.4 58 75.9 Other 1,526 58.3 183 50.3 180 53.3 214 50.0 215 61.4 249 61.8 251 64.5 234 62.4 East/South Asia 53.996 76.9 5.457 74.2 5.560 71.6 6.63.5 74.0 7.63.8 76.0 8.952 78.7 9.643 80.4 9.701 79.2 China* 25.037 89.6 2.290 91.7 2.483 90.6 2.995 89.5 3.5.88 89.4 4.41 89.9 4.714 89.6 4.528 87.7 India 9.627 87.9 734 89.9 80.8 84.7 914 80.4 1.186 85.4 1.594 87.8 2.075 89.8 2.216 88.6 31.9apan 1,750 51.1 205 50.2 241 51.0 240 48.8 23.8 4.9 27.0 55.9 276 51.8 255 50.2 South Korea 9.549 64.6 1.109 65.0 12.29 61.0 1.351 64.8 14.2 63.6 1.544 63.1 1.434 67.4 1.440 68.8 1.594 87.8 2.075 89.8 2.075 89.8 2.075 89.8 1.452 87.7 1.452 87.7 1.452 87.8 1.452 87.7 1.452 87.	Ghana	277	70.4	27	66.7	28	57.1	33	54.5	40	72.5	38	71.1	56	82.1	55	74.5
Differ 1,526 58.3 183 50.3 180 53.3 214 50.0 215 61.4 249 61.8 251 64.5 234 62.4	Kenya	434	67.7	44	84.1	42	64.3	60	56.7	69	69.6	72	70.8	88	69.3	59	61.0
East/South Asia 53,996 76 9 5,477 74.2 5,960 71.6 6,635 74.0 7,638 76.0 8,962 78.7 9,643 80.4 9,701 79.2 China' 25,037 89.6 2,290 91.7 2,483 90.6 2,995 89.5 3,888 89.4 4,441 89.9 4,714 89.6 4,526 87.7 India 9,627 87.9 734 89.9 808 84.7 914 86.4 1,186 85.4 1,594 87.8 2,075 89.8 2,315 86.6 Japan 17.50 51.1 205 50.2 241 51.0 240 48.8 263 49.0 270 56.9 276 518 255 50.2 South Korea 9,549 64.6 1,109 65.0 1,229 61.0 1,391 64.8 1,442 63.6 1,544 63.1 1,434 67.4 1,440 66.8 Singapore 413 49.6 36 41.7 35 66.9 49.0 63.6 46.5 661 66.0 66.8 52.1 69.4 53.3 642 65.8 Talwan 4,579 53.0 69.9 57.3 66.9 49.0 63.6 46.5 661 66.0 66.0 66.8 52.1 69.4 53.3 642 65.8 Talwan 18.0 60.0 19.6 63.2 16.6 50.0 16.6 37.5 23 60.9 21.6 61.9 30 63.3 55 66.5 Other 552 56.0 67.0 47.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	Nigeria	227	79.3	15	100.0	24	70.8	19	57.9	26	76.9	33	78.8	52	90.4	58	75.9
China* 25,037 88.6 2,290 91.7 2,483 99.6 2,995 88.5 3,588 88.4 4,441 89.9 4,714 88.6 4,526 87.7 India 9,627 87.9 734 89.9 808 84.7 91.4 86.4 1,150 55.9 27.6 51.8 255 50.2 South Korea 9,549 64.6 1,109 65.0 1,229 61.0 1,351 64.8 1,442 63.6 1,544 63.1 1,434 67.4 1,440 66.8 Singapore 41.3 49.6 36.0 9.73 669 49.0 636 46.5 661 66.0 668 52.1 694 53.3 642 66.9 Thilland 2,229 22.5 388 14.9 412 16.3 354 20.6 322 22.4 260 31.2 266 30.5 37.7 28.1 William 1,226 69.1 1,57 <td>Other</td> <td>1,526</td> <td>58.3</td> <td>183</td> <td>50.3</td> <td>180</td> <td>53.3</td> <td>214</td> <td>50.0</td> <td>215</td> <td>61.4</td> <td>249</td> <td>61.8</td> <td>251</td> <td>64.5</td> <td>234</td> <td>62.4</td>	Other	1,526	58.3	183	50.3	180	53.3	214	50.0	215	61.4	249	61.8	251	64.5	234	62.4
India	East/South Asia	53,996	76.9	5,457	74.2	5,960	71.6	6,635	74.0	7,638	76.0	8,962	78.7	9,643	80.4	9,701	79.2
Alapan 1,750 51.1 205 50.2 241 51.0 240 48.8 263 49.0 270 55.9 276 51.8 255 50.2	China ^a	25,037	89.6	2,290	91.7	2,483	90.6	2,995	89.5	3,588	89.4	4,441	89.9	4,714	89.6	4,526	87.7
South Korea 9,549 646 1,109 650 1,229 61,0 1,351 64.8 1,442 63.6 1,544 63.1 1,434 67.4 1,440 66.8	India	9,627	87.9	734	89.9	808	84.7	914	86.4	1,186	85.4	1,594	87.8	2,075	89.8	2,316	88.6
Singapore	Japan	1,750	51.1	205	50.2	241	51.0	240	48.8	263	49.0	270	55.9	276	51.8	255	50.2
Taiwan 4,579 53.0 609 57.3 669 49.0 636 46.5 661 56.0 668 52.1 694 53.3 642 56.9 Thailand 2,329 22.5 388 14.9 412 16.3 354 20.6 322 22.4 260 31.2 266 30.5 327 28.1 Vielmam 180 60.0 19 63.2 16 50.0 16 37.5 23 60.9 21 61.9 30 63.3 55 66.5 Other 532 59.0 67 49.3 67 55.2 74 58.1 83 56.6 89 67.4 85 55.3 67.0 70.1 Europe 12.216 69.1 1,570 69.5 1,618 69.1 1,760 66.1 1,847 71.3 1,816 70.1 1,822 69.5 1,783 67.9 Bulgaria 42.1 83.6 69.1 <td>South Korea</td> <td>9,549</td> <td>64.6</td> <td>1,109</td> <td>65.0</td> <td>1,229</td> <td>61.0</td> <td>1,351</td> <td>64.8</td> <td>1,442</td> <td>63.6</td> <td>1,544</td> <td>63.1</td> <td>1,434</td> <td>67.4</td> <td>1,440</td> <td>66.8</td>	South Korea	9,549	64.6	1,109	65.0	1,229	61.0	1,351	64.8	1,442	63.6	1,544	63.1	1,434	67.4	1,440	66.8
Thailand	Singapore	413	49.6	36	41.7	35	62.9	55	49.1	70	54.3	75	45.3	69	53.6	73	43.8
Vietnam	Taiwan	4,579	53.0	609	57.3	669	49.0	636	46.5	661	56.0	668	52.1	694	53.3	642	56.9
Other 532 59.0 67 49.3 67 55.2 74 58.1 83 56.6 89 67.4 85 55.3 67 70.1 Europe 12,216 69.1 1,570 69.5 1,618 69.1 1,760 66.1 1,847 71.3 1,816 70.1 1,822 69.5 1,783 67.9 Bulgaria 421 83.6 40 90.0 47 78.7 69 81.2 81 66.4 60.8 85.0 54 88.9 70 77.1 France 841 66.7 100 58.0 203 66.0 104 64.4 126 69.8 152 71.1 147 66.0 Gereace 713 64.0 80 58.8 86 64.0 1108 64.8 102 68.6 122 59.0 1118 67.8 197 63.9 Italy 1,031 64.0 131 84.0 115	Thailand	2,329	22.5	388	14.9	412	16.3	354	20.6	322	22.4	260	31.2	266	30.5	327	28.1
Europe 12,216 69.1 1,570 69.5 1,618 69.1 1,760 66.1 1,847 71.3 1,816 70.1 1,822 69.5 1,783 67.9 Bulgaria 421 83.6 40 90.0 47 78.7 69 81.2 81 86.4 60 85.0 54 88.9 70 77.1 France 841 66.7 100 58.0 86 64.0 104 64.4 126 69.8 126 69.8 152 71.1 147 66.0 Greece 713 64.0 80 58.8 86 64.0 108 64.8 102 59.0 118 67.8 197 63.9 Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Romania 1,080 84.0 131 84.0 115	Vietnam	180	60.0	19	63.2	16	50.0	16	37.5	23	60.9	21	61.9	30	63.3	55	65.5
Bulgaria 421 83.6 40 90.0 47 78.7 69 81.2 81 86.4 60 85.0 54 88.9 70 77.1 France 841 66.7 100 58.0 86 64.0 104 64.4 126 69.8 126 69.8 152 71.1 147 66.0 Germany 1,346 62.9 207 58.0 203 65.0 1193 61.1 194 59.8 182 67.6 173 64.2 194 64.9 Greece 713 64.0 80 58.8 86 64.0 108 64.8 102 68.6 122 59.0 118 67.8 97 63.9 Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Romania 1,080 84.0 131 84.0 115 85.2 155 85.2 183 88.0 186 86.0 166 83.1 144 75.0 Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 666 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 124 61.3 Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61 80.3 Uhrited Kingdom 82.0 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9 1.151 49.1 1.302 50.7 1.404 51.2 1.458 52.7 1.384 54.4 1.484 60.2 1.540 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 134 67.2 Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 466 59.7 57.0 10.6 68.9 149 55.9 Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 55.9 44.0 Mexico 1,466 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 76.5 77.3 75.5 74.5	Other	532	59.0	67	49.3	67	55.2	74	58.1	83	56.6	89	67.4	85	55.3	67	70.1
France 841 66.7 100 58.0 86 64.0 104 64.4 126 69.8 126 69.8 152 71.1 147 66.0 Germany 1,346 62.9 207 58.0 203 65.0 193 61.1 194 59.8 182 67.6 173 64.2 194 64.9 Greece 713 64.0 80 58.8 86 64.0 108 64.8 102 68.6 122 59.0 118 67.8 97 63.9 Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Romania 1,080 84.0 131 84.0 115 85.2 155 85.2 183 88.0 186 86.0 166 83.1 144 75.0 Russian Federation 1,364 80.5 50.8	Europe	12,216	69.1	1,570	69.5	1,618	69.1	1,760	66.1	1,847	71.3	1,816	70.1	1,822	69.5	1,783	67.9
Germany 1,346 62.9 207 58.0 203 65.0 193 61.1 194 59.8 182 67.6 173 64.2 194 64.9 Greece 713 64.0 80 58.8 86 64.0 108 64.8 102 68.6 122 59.0 118 67.8 97 63.9 Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 117 78.4 81.1 61.3 89.2 66.6 63.2	Bulgaria	421	83.6	40	90.0	47	78.7	69	81.2	81	86.4	60	85.0		88.9	70	
Greece 713 64.0 80 58.8 86 64.0 108 64.8 102 68.6 122 59.0 118 67.8 97 63.9 Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Romania 1,080 84.0 131 84.0 115 85.2 155 85.2 183 88.0 186 86.0 166 83.1 144 75.0 Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 6686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79.7 60.8 100 58.0 124 61.3 117 78.4 81.1 61 80.3	France		66.7	100	58.0	86	64.0	104	64.4	126	69.8	126	69.8	152	71.1	147	
Italy 1,031 61.8 137 63.5 136 51.5 151 63.6 155 65.2 163 60.7 127 66.9 162 61.1 Romania 1,080 84.0 131 84.0 115 85.2 155 85.2 183 88.0 186 86.0 166 83.1 144 75.0 Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 124 61.3 Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61.3 80.3 Ukraine 40.0 66.5 134	Germany	1,346	62.9	207	58.0	203	65.0	193	61.1	194	59.8	182	67.6	173	64.2	194	64.9
Romania 1,080 84.0 131 84.0 115 85.2 155 85.2 183 88.0 186 86.0 166 83.1 144 75.0 Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 124 61.3 Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61 80.3 United Kingdom 820 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 <td>Greece</td> <td>713</td> <td>64.0</td> <td>80</td> <td>58.8</td> <td>86</td> <td>64.0</td> <td>108</td> <td>64.8</td> <td>102</td> <td>68.6</td> <td>122</td> <td>59.0</td> <td>118</td> <td>67.8</td> <td>97</td> <td>63.9</td>	Greece	713	64.0	80	58.8	86	64.0	108	64.8	102	68.6	122	59.0	118	67.8	97	63.9
Russian Federation 1,364 80.5 178 86.5 203 81.8 187 76.5 207 83.1 207 79.2 211 78.2 171 78.4 Spain 686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 124 61.3 Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61 80.3 United Kingdom 820 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9	Italy	1,031	61.8	137	63.5	136	51.5	151	63.6	155	65.2	163	60.7	127	66.9	162	61.1
Spain 686 59.9 83 57.8 106 63.2 95 53.7 99 63.6 79 60.8 100 58.0 124 61.3 Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61 80.3 United Kingdom 820 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9 1,151 49.1 1,302 50.7 1,404 51.2 1,458 52.7 1,384 54.4 1,484 60.2 1,540 57.4 Argentina 717 64.7	Romania	1,080	84.0	131	84.0	115	85.2	155	85.2	183	88.0	186	86.0	166	83.1	144	75.0
Ukraine 401 83.8 55 96.4 46 87.0 45 80.0 56 83.9 64 79.7 74 81.1 61 80.3 United Kingdom 820 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9 1,151 49.1 1,302 50.7 1,404 51.2 1,458 52.7 1,384 54.4 1,484 60.2 1,540 57.4 Argentina 717 64.7 75 68.0 84 66.7 101 61.4 94 66.0 102 61.8 127 63.0 134 67.2 Brazil 1,127 40.9	Russian Federation	1,364	80.5	178	86.5	203	81.8	187	76.5	207	83.1	207	79.2	211	78.2	171	78.4
United Kingdom 820 66.5 134 70.9 108 66.7 122 63.1 113 71.7 113 68.1 113 59.3 117 65.0 Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9 1,151 49.1 1,302 50.7 1,404 51.2 1,458 52.7 1,384 54.4 1,484 60.2 1,540 57.4 Argentina 717 64.7 75 68.0 84 66.7 101 61.4 94 66.0 102 61.8 127 63.0 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 157 47.8 Canada 3,265 5	Spain	686	59.9	83	57.8	106	63.2	95	53.7	99	63.6	79	60.8	100	58.0	124	61.3
Other 3,513 65.2 425 66.6 482 67.6 531 59.9 531 65.3 514 66.1 534 64.8 496 66.3 North/South America 9,723 53.9 1,151 49.1 1,302 50.7 1,404 51.2 1,458 52.7 1,384 54.4 1,484 60.2 1,540 57.4 Argentina 717 64.7 75 68.0 84 66.7 101 61.4 94 66.0 102 61.8 127 63.0 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 157 47.8 Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 464 59.7 512 60.4 497 55.9 Chile 428 36.2	Ukraine	401	83.8	55	96.4	46	87.0	45	80.0	56	83.9	64	79.7	74	81.1	61	80.3
North/South America 9,723 53.9 1,151 49.1 1,302 50.7 1,404 51.2 1,458 52.7 1,384 54.4 1,484 60.2 1,540 57.4 Argentina 717 64.7 75 68.0 84 66.7 101 61.4 94 66.0 102 61.8 127 63.0 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 157 47.8 Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 464 59.7 512 60.4 497 55.9 Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	United Kingdom	820	66.5	134	70.9	108	66.7	122	63.1	113	71.7	113	68.1	113	59.3	117	65.0
Argentina 717 64.7 75 68.0 84 66.7 101 61.4 94 66.0 102 61.8 127 63.0 134 67.2 Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 157 47.8 Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 464 59.7 512 60.4 497 55.9 Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.	Other	3,513	65.2	425	66.6	482	67.6	531	59.9	531	65.3	514	66.1	534	64.8	496	66.3
Brazil 1,127 40.9 150 34.0 143 32.9 173 38.2 180 40.6 167 41.9 157 50.3 157 47.8 Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 464 59.7 512 60.4 497 55.9 Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 3	North/South America	9,723	53.9	1,151	49.1	1,302	50.7	1,404	51.2	1,458	52.7	1,384	54.4	1,484	60.2	1,540	
Canada 3,265 57.2 394 57.4 428 55.8 507 55.8 463 55.1 464 59.7 512 60.4 497 55.9 Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	Argentina	717	64.7	75	68.0	84	66.7	101	61.4	94	66.0	102	61.8	127	63.0	134	67.2
Chile 428 36.2 46 19.6 69 42.0 51 35.3 58 37.9 62 21.0 61 49.2 81 42.0 Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	Brazil	1,127	40.9	150	34.0	143	32.9	173	38.2	180	40.6	167	41.9	157	50.3	157	47.8
Colombia 710 57.2 57 56.1 90 45.6 81 56.8 127 49.6 100 55.0 106 68.9 149 64.4 Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	Canada	3,265	57.2	394	57.4	428	55.8	507	55.8	463	55.1	464	59.7	512	60.4	497	55.9
Mexico 1,486 45.8 202 41.1 230 46.1 203 41.9 231 46.8 208 45.2 205 48.8 207 50.2 Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	Chile	428	36.2	46	19.6	69	42.0	51	35.3	58	37.9	62	21.0	61	49.2	81	42.0
Venezuela 460 55.2 62 37.1 85 45.9 78 51.3 57 54.4 66 57.6 57 73.7 55 74.5	Colombia	710	57.2	57	56.1	90	45.6	81	56.8	127	49.6	100	55.0	106	68.9	149	64.4
	Mexico	1,486	45.8	202	41.1	230	46.1	203	41.9	231	46.8	208	45.2	205	48.8	207	50.2
Other 1,530 62.4 165 54.5 173 59.5 210 56.7 248 62.1 215 66.5 259 69.5 260 63.8	Venezuela	460	55.2	62	37.1	85	45.9	78	51.3	57	54.4	66	57.6	57	73.7	55	74.5
	Other	1,530	62.4	165	54.5	173	59.5	210	56.7	248	62.1	215	66.5	259	69.5	260	63.8

TABLE 35. Temporary visa holder doctorate recipients intending to stay in the United States after doctorate receipt, by country of citizenship: 2002–08

	Total, 20	002–2008	20	02	20	003	20	004	20	005	20)06	20	07	20	008
Place of origin	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying
Pacifica/Australia	1,419	60.7	206	54.9	187	50.3	192	62.0	212	57.5	199	63.3	208	68.3	215	67.4
Indonesia	431	54.3	72	48.6	51	47.1	73	52.1	71	50.7	52	57.7	47	70.2	65	58.5
Philippines	372	72.8	43	65.1	52	57.7	40	72.5	48	83.3	53	60.4	68	82.4	68	82.4
Other	616	57.8	91	54.9	84	47.6	79	65.8	93	49.5	94	68.1	93	57.0	82	62.2
West Asia	8,057	58.7	894	54.5	998	51.8	1,100	50.0	1,116	59.9	1,254	61.3	1,321	64.0	1,374	65.1
Bangladesh	423	79.9	43	81.4	38	84.2	48	77.1	63	81.0	88	85.2	67	76.1	76	75.0
Iran	646	89.0	41	85.4	45	77.8	47	93.6	115	87.0	129	86.0	132	D	137	89.1
Israel	637	58.4	55	60.0	77	62.3	94	58.5	102	63.7	98	57.1	108	51.9	103	57.3
Jordan	643	46.0	58	62.1	86	47.7	106	42.5	86	40.7	106	45.3	107	43.0	94	47.9
Lebanon	315	76.2	36	72.2	33	60.6	39	66.7	29	69.0	59	84.7	59	88.1	60	76.7
Nepal	196	86.7	15	93.3	14	92.9	19	73.7	37	81.1	27	88.9	25	D	59	88.1
Pakistan	347	73.2	39	69.2	33	72.7	38	81.6	42	73.8	63	77.8	60	65.0	72	73.6
Saudi Arabia	683	7.5	103	3.9	111	7.2	132	8.3	107	7.5	98	5.1	71	D	61	11.5
Turkey	3,062	61.2	370	56.5	412	54.6	397	51.9	390	65.1	414	64.7	521	66.2	558	65.9
Other	1,105	50.7	134	50.7	149	47.7	180	45.0	145	51.0	172	48.3	171	57.3	154	55.2
Country unknown	607	41.5	101	20.8	136	57.4	75	13.3	63	41.3	20	30.0	89	73.0	123	37.4

D = suppressed to avoid disclosure of confidential information.

NOTES: Includes only temporary visa holders who indicated whether they intended to stay in the United States after graduation. Percentages based on all doctorate recipients, not just those with definite commitments.

^a Includes Hong Kong.

TABLE 36. Doctorate recipients, by sex and subfield of study: 2008

eld of study	Total ^a	Male	Female
ll fields	48,802	26,271	22,496
Life sciences	11,088	5,220	5,854
Agricultural sciences/natural resources	1,201	702	499
Agricultural economics	111	72	39
Agronomy and crop science	68	52	16
Animal science, other	77	42	35
Environmental science	183	86	97
Fishing and fisheries sciences and management	52	38	14
Forest/resources management	44	25	19
Horticulture science	50	31	19
Natural resources/conservation	78	40	38
Plant pathology/phytopathology	59	30	29
Wildlife/range management	55	40	15
Animal breeding, animal nutrition, poultry science	62	39	23
Food science, food technology-other	137	64	73
Forest biology, wood science, forestry sciences-other	51	33	18
Plant breeding, plant sciences-other	67	38	29
Soil chemistry, soil sciences-other	92	64	28
Agriculture-general, agricultural sciences-other	15	8	7
Biological/biomedical sciences	7,793	3,854	3,929
Biochemistry	895	473	420
Bioinformatics	148	112	36
Biomedical sciences	267	138	129
Biometrics and biostatistics	121	41	79
Biophysics	166	105	61
Cancer biology	291	126	165
Cell/cellular biology and histology	378	197	181
Ecology	439	216	223
Entomology	119	70	49
Evolutionary biology	178	98	80
Immunology	425	205	220
Microbiology	538	232	306
Molecular biology	784	336	444
Neurosciences	880	461	419
Nutrition sciences	175	33	142
Pharmacology, human and animal	280	140	139
Physiology, human and animal	243	125	118
Toxicology	137	68	68
Zoology	62	28	34
Biology/biomedical sciences, general	150	88	62
Anatomy, developmental biology	210	100	110
Bacteriology, parasitology	45	20	25
Botany, plant pathology, plant physiology	160	80	80
Endocrinology, human/animal pathology	127	57	70
Genetics-human/animal, plant genetics	460	248	212
Biotechnology, biology/biomedical sciences-other	115	57	57
Health sciences	2,094	664	1,426
Environmental health	68	28	38
Epidemiology	303	90	213
Health systems/services administration	70	30	40
Kinesiology/exercise science	212	120	92
Medicinal/pharmaceutical sciences	279	150	129
Nursing science	505	43	461
Public health	230	56	174
Rehabilitation/therapeutic services	89	29	60
Speech-language pathology and audiology	112	26	86
Veterinary sciences	53	24	29

TABLE 36. Doctorate recipients, by sex and subfield of study: 2008

d of study	Total ^a	Male	Female
Health sciences, aggregated	173	68	104
hysical sciences	8,129	5,856	2,271
Astronomy	248	186	62
Astronomy	101	70	31
Astrophysics	147	116	31
Atmospheric science and meteorology	186	134	52
Atmospheric physics, meteorology	82	64	18
Atmospheric chemistry, atmospheric sciences-general,	404	70	0.4
atmospheric sciences-other	104	70	34
Chemistry	2,247	1,479	768
Analytical chemistry	372	215	157
Inorganic chemistry	300	199	101
Organic chemistry	638	453	185
Physical chemistry	330	216	114
Polymer chemistry	106	81	25
Theoretical chemistry	79	56	23
Chemistry, general	276	181	95
Chemistry, other	146	78	68
Computer and information sciences	1,786	1,386	400
Computer science	1,498	1,199	299
Information science and systems	181	114	67
Computer and information science, other	107	73	34
Geological and earth sciences	458	293	165
Geology	141	98	43
Geophysics and seismology	116	73	43
Geochemistry, Mineralogy	94	54	40
Paleontology, Stratigraphy	36	25	11
Geomorphology, geological sciences-general, geological sciences-other	71	43	28
Mathematics	1,400	966	433
Algebra	122	85	37
Analysis and functional analysis	112	90	22
Geometry/geometric analysis	100	78	22
Number theory	62	53	9
Statistics	303	161	141
Applied mathematics, computing theory	385	266	119
Logic, topology/foundations	83	63	20
Operations research, mathematics/statistics-general,			
mathematics/statistics-other	233	170	63
Ocean/marine sciences	218	120	97
Marine sciences	73	33	39
Oceanography, chemical and physical	84	50	34
Ocean/marine sciences, aggregated	61	37	24
Physics	1,586	1,292	294
Applied physics	136	105	31
Biophysics	119	89	30
Condensed matter/low temperature physics	396	333	63
Elementary particle physics	210	177	33
Nuclear physics	61	49	12
Diament fraise election	59	51	8
Plasma/fusion physics		100	38
Physics, general	160	122	30
• •	160 119	122 91	
Physics, general			28 27

TABLE 36. Doctorate recipients, by sex and subfield of study: 2008

ld of study	Total ^a	Male	Female
Social sciences and psychology	7,509	3,121	4,38
Psychology	3,361	998	2,36
Clinical psychology	1,137	305	83
Cognitive psychology and psycholinguistics	181	86	9
Counseling	418	114	30
Developmental and child psychology	199	30	16
Experimental psychology	137	63	7
Educational psychology	69	13	5
Family psychology	42	13	2
Human development and family studies	121	26	9
Industrial and organizational	213	77	13
Physiological/psychobiology	81	33	4
School psychology	132	18	11
Social psychology	204	66	13
Psychology, general	205	78	12
Psychology, aggregated	222	76	14
Social sciences	4,148	2,123	2,02
Anthropology	481	189	29
Area/ethnic/cultural/gender studies	114	30	8
Criminal justice and corrections	74	35	3
Criminology	54	20	3
Geography	249	143	10
International relations/affairs	81	42	3
Linguistics	252	109	14
Political science and government	626	366	26
Public policy analysis	196	100	9
Sociology	601	235	36
Urban/city, community and regional planning	115	55	6
Social sciences, general	37	9	2
Econometrics, economics	1,091	717	37
Demography, statistics, urban affairs, social sciences-other	177	73	10
Engineering	7,862	6,164	1,68
Aerospace, aeronautical and astronautical engineering	265	238	2
Bioengineering and biomedical engineering	761	476	28
Chemical engineering	872	641	23
Civil engineering	712	568	14
Computer engineering	386	318	6
Electrical and electronics engineering	1,887	1,568	31
Environmental health engineering	153	97	5
Industrial and manufacturing engineering	281	200	8
Materials science engineering	636	483	15
Mechanical engineering	1,079	923	15
Nuclear engineering	98	80	1
Operations research	82	61	2
Systems engineering	84	68	1
Other engineering, aggregated	566	443	12
Education	6,578	2,163	4,41
Education administration	2,248	897	1,35
Educational administration and supervision	673	295	37
Educational leadership	1,575	602	97
Education research	2,649	763	1,88
Counseling education/counseling and guidance	215	67	14
Curriculum and instruction	742	183	55
Educational assessment/testing/measure	73	24	4

TABLE 36. Doctorate recipients, by sex and subfield of study: 2008

l of study	Total ^a	Male	Female
Educational statistics/research methods	66	23	42
Educational/instructional media design	176	67	109
Higher education/evaluation and research	579	197	382
School psychology	103	22	81
Social/philosophical foundations of education	122	46	76
Special education	261	42	219
Teacher education	274	58	216
Adult and continuing teacher education	118	36	82
Elementary teacher education	63	6	57
Pre-elementary/early childhood teacher education	60	8	52
Secondary teacher education	33	8	25
Teaching fields	807	255	552
Agricultural education	33	15	18
Art education	44	7	37
English education	70	13	57
Foreign languages education	68	20	48
Health education	61	21	4(
Mathematics education	126	49	77
Music education	76	31	45
Physical education and coaching	50	26	24
•	121	7	114
Reading education Science education	94	48	46
	94 64		
Teacher education and professional development, other	04	18	46
Other education	600	190	410
Education, general	240	79	161
Other education, aggregated	360	111	249
manities	4,722	2,256	2,465
Foreign languages and literature	627	221	406
Spanish	246	74	172
German	80	41	39
French, Italian	151	45	106
Other aggregated languages	150	61	89
History	969	560	409
American history (U.S. and Canada)	382	233	149
Asian history	74	42	32
European history	196	97	99
History, science and technology and society	48	28	20
Latin American history	62	32	30
Middle/Near East studies	59	38	2
History, general	64	39	25
History, aggregated	84	51	33
Letters	1,421	527	894
American literature (U.S. and Canada)	338	132	206
Classics	72	47	25
Comparative literature	166	50	116
English language	158	49	109
English literature (British and Commonwealth)	395	134	26
,		54	
Speech and rhetorical studies Letters, aggregated	126 166	5 4 61	72 105
Other humanities American/U.S. studies	1,705 124	948	756
		49	75
Archaeology	47	20	27
Art history/criticism/conservation	207	54	153
Drama/theater arts	83	30	53
Music	68	38	30

TABLE 36. Doctorate recipients, by sex and subfield of study: 2008

ield of study	Total ^a	Male	Female
Music theory and composition	90	62	28
Music performance	59	28	31
Musicology/ethnomusicology	107	49	58
Philosophy	401	298	103
Religion/religious studies	332	225	106
Other humanities, aggregated	187	95	92
Professional fields and fields not elsewhere classified	2,914	1,491	1,417
Business management/administration	1,437	870	565
Accounting	140	73	67
Business administration and management	208	124	83
Human resources development	65	34	3
Organizational behavior	160	78	82
Management information systems/business statistics	156	104	52
Marketing management and research	192	114	7
Business management/administration, general	63	37	2
Banking/financial services, finance	248	169	79
Other aggregated business fields	205	137	68
Communication	556	232	323
Communication research	104	51	5
Communication theory	31	10	2
Mass communication/media studies	175	75	99
Communication, general	103	36	6
Communication, aggregated	143	60	83
Fields not elsewhere classified	921	389	529
Architecture/environmental design	74	37	3
Family/consumer science/human science	59	11	4
Parks/sports/rec./leisure/fitness	76	45	3
Public administration	114	51	6
Social work	337	88	24
Theology/religious education	138	98	40
Fields not elsewhere classified, aggregated	123	59	6

^a Totals include doctorate recipients who did not report sex (n=35).

NOTES: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See appendix A for details of field aggregations.

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

		_			U.S. c	itizens and p	ermanent resi	dents ^a		
	All doctorate	Temporary		American	d					Other/unknowr
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asiand	Black	Hispanic	White	Multi-race	race
All fields	48,802	15,246	30,791	123	2,543	2,030	1,765	23,208	520	602
Life sciences	11,088	3,246	7,269	30	777	327	398	5,489	123	125
Agricultural sciences/natural resources	1,201	492	647	5	41	31	26	524	6	14
Agricultural economics	111	60	45	0	4	3	2	35	0	1
Agronomy and crop science	68	32	34	0	0	0	3	31	0	(
Animal science, other	77	26	41	0	1	1	0	38	1	(
Environmental science	183	51	119	1	10	7	5	90	3	3
Fishing and fisheries sciences and management	52	14	35	1	1	1	2	30	0	(
Forest/resources management	44	9	30	0	2	1	1	25	0	
Horticulture science	50	22	25	0	1	1	1	22	0	(
Natural resources/conservation	78	28	48	1	3	1	0	41	0	2
Plant pathology/phytopathology	59	31	28	1	4	2	2	17	0	2
Wildlife/range management	55	6	49	0	0	0	1	46	1	
Animal breeding, animal nutrition, poultry science	62	29	31	0	2	0	1	28	0	(
Food science, food technology-other	137	81	45	0	7	6	3	28	0	
Forest biology, wood science, forestry sciences-other	51	20	31	0	1	1	2	25	1	
Plant breeding, plant sciences-other	67	31	34	0	3	3	1	26	0	
Soil chemistry, soil sciences-other	92	46	44	0	2	4	2	35	0	
Agriculture-general, agricultural sciences-other	15	6	8	1	0	0	0	7	0	
Biological/biomedical sciences	7,793	2,297	5,135	20	599	192	312	3,822	96	94
Biochemistry	895	334	518	3	58	19	30	387	4	1
Bioinformatics	148	52	90	0	20	3	5	56	1	
Biomedical sciences	267	90	166	1	21	9	6	125	3	
Biometrics and biostatistics	121	61	50	0	16	2	2	27	3	
Biophysics	166	73	91	0	12	2	7	65	4	
Cancer biology	291	76	209	0	34	11	11	149	1	:
Cell/cellular biology and histology	378	100	255	0	34	8	18	186	5	
Ecology	439	69	354	2	1	0	16	315	10	1
Entomology	119	43	73	1	4	4	5	59	0	
Evolutionary biology	178	34	142	0	9	1	9	120	2	
Immunology	425	116	301	2	43	14	22	210	5	
Microbiology	538	131	385	2	38	19	31	278	10	
Molecular biology	784	232	514	1	89	13	26	365	12	
Neurosciences	880	223	616	2	83	18	41	453	11	
Nutrition sciences	175	63	104	3	11	8	6	76	0	(
Pharmacology, human and animal	280	83	188	1	27	12	10	131	3	
Physiology, human and animal	243	63	174	1	14	8	8	137	1	
Toxicology	137	34	98	0	7	3	7	76	4	
Zoology	62	13	46	0	1	1	2	39	1	
Biology/biomedical sciences, general	150	48	80	0	4	2	4	70	0	
Anatomy, developmental biology	210	77	127	0	16	8	7	91	2	

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

					U.S. c	itizens and p	ermanent resid	dents ^a		_
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Bacteriology, parasitology	45	11	34	0	4	3	2	24	1	0
Botany, plant pathology, plant physiology	160	68	80	0	7	2	6	63	2	0
Endocrinology, human/animal pathology	127	35	80	1	9	5	5	57	2	1
Genetics-human/animal, plant genetics	460	130	299	0	25	14	21	224	8	7
Biotechnology, biology/biomedical sciences-other	115	38	61	0	12	3	5	39	1	1
Health sciences	2,094	457	1,487	5	137	104	60	1,143	21	17
Environmental health	68	13	40	0	5	1	3	30	0	1
Epidemiology	303	49	233	0	29	14	8	177	2	3
Health systems/services administration	70	20	45	1	6	2	1	32	1	2
Kinesiology/exercise science	212	51	155	0	3	7	8	133	3	1
Medicinal/pharmaceutical sciences	279	139	104	0	27	3	4	66	0	4
Nursing science	505	55	426	3	24	29	14	347	5	4
Public health	230	28	196	0	19	27	14	130	5	1
Rehabilitation/therapeutic services	89	22	66	1	3	2	1	58	1	0
Speech-language pathology and audiology	112	22	79	0	7	5	4	60	2	1
Veterinary sciences	53	23	28	0	4	1	1	21	1	0
Health sciences, aggregated	173	35	115	0	10	13	2	89	1	0
Physical sciences	8,129	3,678	4,027	4	417	130	166	3,168	53	89
Astronomy	248	63	174	0	10	0	5	156	3	0
Astronomy	101	25	69	0	4	0	2	63	0	0
Astrophysics	147	38	105	0	6	0	3	93	3	0
Atmospheric science and meteorology	186	77	104	0	4	1	1	96	1	1
Atmospheric physics, meteorology	82	29	52	0	2	0	0	49	0	1
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	104	48	52	0	2	1	1	47	1	0
Chemistry	2,247	877	1,227	2	137	50	72	927	16	23
Analytical chemistry	372	147	209	0	19	8	11	166	2	3
Inorganic chemistry	300	109	187	0	14	6	11	151	3	2
Organic chemistry	638	258	362	1	53	17	22	260	4	5
Physical chemistry	330	136	191	0	15	6	10	157	1	2
Polymer chemistry	106	58	47	1	3	2	2	38	1	0
Theoretical chemistry	79	36	43	0	7	1	1	34	0	0
Chemistry, general	276	77	102	0	12	4	11	62	3	10
Chemistry, other	146	56	86	0	14	6	4	59	2	1

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

					U.S. c	itizens and p	permanent resid	dents ^a		
	All doctorate	Temporary		American	4					Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Computer and information sciences	1,786	1,005	695	0	117	26	20	505	8	19
Computer science	1,498	902	540	0	100	14	14	390	7	15
Information science and systems	181	58	97	0	11	8	1	74	0	3
Computer and information science, other	107	45	58	0	6	4	5	41	1	1
Geological and earth sciences	458	155	280	1	16	5	12	240	2	4
Geology	141	35	91	1	4	2	6	75	1	2
Geophysics and seismology	116	60	54	0	4	0	1	48	0	1
Geochemistry, Mineralogy	94	28	65	0	4	1	3	56	0	1
Paleontology, Stratigraphy	36	8	28	0	2	0	1	24	1	0
Geomorphology, geological sciences-general, geological sciences-other	71	24	42	0	2	2	1	37	0	0
Mathematics	1,400	654	667	0	60	30	29	522	5	21
Algebra	122	44	78	0	3	3	4	65	0	3
Analysis and functional analysis	112	52	59	0	2	2	0	52	0	3
Geometry/geometric analysis	100	42	57	0	3	0	2	51	1	(
Number theory	62	22	39	0	6	0	3	29	0	1
Statistics	303	186	96	0	21	5	4	60	2	4
Applied mathematics, computing theory	385	191	189	0	15	11	11	148	1	3
Logic, topology/foundations	83	27	55	0	4	4	3	43	0	1
Operations research, mathematics/statistics-general, mathematics/statistics-other	233	90	94	0	6	5	2	74	1	6
Ocean/marine sciences	218	60	149	1	5	3	4	133	1	2
Marine sciences	73	12	58	0	2	1	0	54	1	C
Oceanography, chemical and physical	84	27	51	0	2	1	1	46	0	1
Ocean/marine sciences, aggregated	61	21	40	1	1	1	3	33	0	1
Physics	1,586	787	731	0	68	15	23	589	17	19
Applied physics	136	75	60	0	5	1	2	50	1	1
Biophysics	119	53	63	0	5	0	3	49	2	4
Condensed matter/low temperature physics	396	250	138	0	15	3	4	111	2	3
Elementary particle physics	210	108	102	0	9	1	0	87	4	1
Nuclear physics	61	30	31	0	2	0	0	28	0	1
Plasma/fusion physics	59	22	36	0	5	0	1	29	1	C
Physics, general	160	46	69	0	2	3	1	54	3	6
Physics, other	119	50	67	0	9	0	3	54	1	(
Acoustics, optics/phototonics	163	76	85	0	12	4	6	59	2	2
Atomic physics, polymer physics	163	77	80	0	4	3	3	68	1	1
Social sciences and psychology	7,509	1,608	5,477	23	347	339	426	4,106	119	117
Psychology	3,361	247	2,886	14	147	165	276	2,165	70	49
Clinical psychology	1,137	49	1,018	8	43	44	119	769	22	13

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

					U.S. c	itizens and p	ermanent resid	dents ^a		
Subfield of study	All doctorate recipients ^b	Temporary visa holders	Total	American Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	Other/unknown race ^e
Cognitive psychology and psycholinguistics	181	30	146	2	16	2	1	113	9	3
Counseling	418	23	380	3	24	36	23	275	11	8
Developmental and child psychology	199	23	166	0	8	5	14	132	5	2
Experimental psychology	137	17	118	0	5	4	9	98	0	2
Educational psychology	69	10	54	0	1	4	7	37	1	4
Family psychology	42	2	33	0	1	1	4	26	0	1
Human development and family studies	121	19	95	0	8	10	3	70	3	1
Industrial and organizational	213	9	197	0	6	14	27	141	7	2
Physiological/psychobiology	81	10	71	0	4	4	3	58	0	2
School psychology	132	2	129	0	4	7	7	106	3	2
Social psychology	204	19	179	0	12	12	16	134	5	0
Psychology, general	205	10	132	1	3	7	30	84	2	5
Psychology, aggregated	222	24	168	0	12	15	13	122	2	4
Social sciences	4,148	1,361	2,591	9	200	174	150	1,941	49	68
Anthropology	481	64	397	1	27	12	25	306	6	20
Area/ethnic/cultural/gender studies	114	12	88	3	9	19	11	38	4	4
Criminal justice and corrections	74	18	55	0	0	12	4	39	0	0
Criminology	54	6	44	0	1	1	2	37	2	1
Geography	249	77	163	1	8	5	4	134	5	6
International relations/affairs	81	20	58	0	6	7	1	42	0	2
Linguistics	252	94	144	0	14	4	8	113	3	2
Political science and government	626	160	439	2	27	22	22	348	9	9
Public policy analysis	196	56	134	0	8	12	5	105	1	3
Sociology	601	119	463	1	28	39	40	334	12	9
Urban/city, community and regional planning	115	56	56	0	6	3	4	43	0	0
Social sciences, general	37	8	29	0	2	4	0	23	0	0
Econometrics, economics	1,091	621	405	0	58	16	16	301	5	9
Demography, statistics, urban affairs, social sciences-other	177	50	116	1	6	18	8	78	2	3
Engineering	7,862	4,486	2,948	7	493	111	133	2,089	45	70
Aerospace, aeronautical and astronautical engineering	265	126	121	1	16	2	3	94	0	5
Bioengineering and biomedical engineering	761	265	468	2	93	17	22	309	7	18
Chemical engineering	872	437	396	1	50	16	21	293	7	8
Civil engineering	712	468	206	0	20	6	11	162	4	3
Computer engineering	386	276	98	0	27	3	3	61	2	2
Electrical and electronics engineering	1,887	1,218	557	1	157	15	25	336	9	14
Environmental health engineering	153	79	64	0	4	1	4	52	2	1
Industrial and manufacturing engineering	281	176	90	0	10	12	7	58	3	0
Materials science engineering	636	339	264	0	39	16	8	194	2	5
Mechanical engineering	1,079	650	368	1	35	18	17	284	4	9
Nuclear engineering	98	45	53	0	3	0	1	48	0	1

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U.S. citizens and permanent residents^a Other/unknown All doctorate American Temporary Asian^d recipients^b Indianc racee Subfield of study visa holders Total Black Hispanic White Multi-race Operations research Systems engineering Other engineering, aggregated Education 6,578 5,590 4,091 Education administration 2,248 2,023 1,483 Educational administration and supervision Educational leadership 1,575 1,444 1,063 Education research 2,649 2,219 1,598 Counseling education/counseling and guidance Curriculum and instruction Educational assessment/testing/measure Educational psychology Educational statistics/research methods n Educational/instructional media design Higher education/evaluation and research School psychology Social/philosophical foundations of education Special education Teacher education Adult and continuing teacher education Elementary teacher education Pre-elementary/early childhood teacher education Secondary teacher education Teaching fields Agricultural education Art education English education Foreign languages education Health education Mathematics education Music education Physical education and coaching Reading education Science education Teacher education and professional development, other Other education Education, general Other education, aggregated

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

					U.S. ci	itizens and p	permanent resid	dents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Humanities	4,722	699	3,736	13	171	170	206	3,009	88	79
Foreign languages and literature	627	192	388	0	21	12	69	268	7	11
Spanish	246	79	155	0	3	2	65	79	3	3
German	80	27	49	0	0	1	0	46	0	2
French, Italian	151	43	100	0	5	5	2	85	2	1
Other aggregated languages	150	43	84	0	13	4	2	58	2	5
History	969	121	799	4	29	53	43	629	20	21
American history (U.S. and Canada)	382	16	362	3	7	28	17	290	9	8
Asian history	74	34	39	0	14	0	0	24	1	0
European history	196	15	173	0	5	3	6	153	4	2
History, science and technology and society	48	8	38	0	1	1	0	32	3	1
Latin American history	62	11	50	0	0	7	18	25	0	0
Middle/Near East studies	59	15	40	0	0	0	0	33	2	5
History, general	64	7	33	1	0	1	2	24	0	5
History, aggregated	84	15	64	0	2	13	0	48	1	0
Letters	1,421	145	1,199	2	52	41	51	1,003	31	19
American literature (U.S. and Canada)	338	18	316	0	20	12	18	255	8	3
Classics	72	11	57	1	2	0	2	50	1	1
Comparative literature	166	39	117	0	2	5	9	95	3	3
English language	158	24	99	0	4	3	5	81	1	5
English literature (British and Commonwealth)	395	38	353	0	16	12	8	301	12	4
Speech and rhetorical studies	126	5	117	1	1	6	3	101	4	1
Letters, aggregated	166	10	140	0	7	3	6	120	2	2
Other humanities	1,705	241	1,350	7	69	64	43	1,109	30	28
American/U.S. studies	124	7	97	1	2	10	8	71	2	3
Archaeology	47	12	35	0	3	1	4	22	1	4
Art history/criticism/conservation	207	35	161	0	6	3	2	144	3	3
Drama/theater arts	83	9	71	0	2	4	6	56	2	1
Music	68	12	38	1	4	2	1	28	1	1
Music theory and composition	90	14	75	0	5	0	0	67	3	0
Music performance	59	11	41	0	6	0	0	33	1	1
Musicology/ethnomusicology	107	13	94	0	1	2	0	86	3	2
Philosophy	401	62	318	2	12	8	10	275	5	6
Religion/religious studies	332	41	280	1	19	21	8	220	6	5
Other humanities, aggregated	187	25	140	2	9	13	4	107	3	2
Professional fields and fields not elsewhere classified	2,914	963	1,744	6	130	195	86	1,256	26	45
Business management/administration	1,437	625	705	2	65	68	23	511	12	24
Accounting	140	67	69	0	6	2	1	58	1	1
Business administration and management	208	70	101	0	6	15	2	71	1	6

TABLE 37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2008

					U.S. c	itizens and p	ermanent resid	lents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Human resources development	65	16	49	0	1	12	1	31	3	1
Organizational behavior	160	29	121	0	6	14	4	91	4	2
Management information systems/business statistics	156	72	74	1	12	4	2	52	1	2
Marketing management and research	192	83	96	1	9	12	3	67	0	4
Business management/administration, general	63	27	30	0	3	3	2	20	0	2
Banking/financial services, finance	248	152	83	0	14	4	5	57	0	3
Other aggregated business fields	205	109	82	0	8	2	3	64	2	3
Communication	556	115	402	2	26	41	22	303	3	5
Communication research	104	29	73	0	3	7	4	58	1	0
Communication theory	31	3	27	0	1	3	0	23	0	0
Mass communication/media studies	175	42	122	2	10	13	9	86	1	1
Communication, general	103	18	70	0	4	6	2	55	0	3
Communication, aggregated	143	23	110	0	8	12	7	81	1	1
Fields not elsewhere classified	921	223	637	2	39	86	41	442	11	16
Architecture/environmental design	74	35	35	0	7	3	0	20	1	4
Family/consumer science/human science	59	25	34	0	1	8	0	23	1	1
Parks/sports/rec./leisure/fitness	76	23	51	1	0	2	0	47	0	1
Public administration	114	25	83	0	4	9	7	60	1	2
Social work	337	32	283	1	16	49	25	184	3	5
Theology/religious education	138	32	98	0	6	12	7	70	3	0
Fields not elsewhere classified, aggregated	123	51	53	0	5	3	2	38	2	3

^a Persons reporting Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

NOTES: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See appendix A for details of field aggregations.

^b Includes 2,765 individuals who did not report their citizenship at time of doctorate.

^c Includes Alaska Natives.

^d Does not include non-Hispanic Native Hawaiians or Other Pacific Islanders.

e Includes doctorate recipients who did not indicate their race/ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

									Science f	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
All doctorate recipients (number)	48,802	11,088	1,201	7,793	2,094	8,129	2,247	1,786	862	1,400	1,834	7,509	481	1,091	959	3,361	601	1,016
								ı	Percent									
Sex																		
Male	53.8	47.1	58.5	49.5	31.7	72.0	65.8	77.6	63.5	69.0	80.6	41.6	39.3	65.7	53.9	29.7	39.1	45.8
Female	46.1	52.8	41.5	50.4	68.1	27.9	34.2	22.4	36.4	30.9	19.4	58.4	60.7	34.3	46.1	70.3	60.9	54.2
Unknown	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citizenship																		
U.S. citizen and permanent resident	63.1	65.6	53.9	65.9	71.0	49.5	54.6	38.9	61.8	47.6	49.3	72.9	82.5	37.1	66.8	85.9	77.0	67.4
Temporary visa holder	31.2	29.3	41.0	29.5	21.8	45.2	39.0	56.3	33.9	46.7	46.3	21.4	13.3	56.9	28.6	7.3	19.8	27.9
Unknown	5.7	5.2	5.2	4.6	7.2	5.2	6.4	4.8	4.3	5.6	4.3	5.6	4.2	6.0	4.6	6.8	3.2	4.7
Marital status																		
Never married	27.3	28.6	25.1	31.3	20.6	34.0	35.2	30.4	28.7	36.5	36.5	26.3	26.2	34.9	27.2	24.8	21.3	23.8
Married	50.7	50.6	54.5	48.5	56.1	47.4	44.7	52.2	51.0	45.4	45.9	47.7	50.7	46.1	51.6	44.3	55.4	51.2
Separated	0.5	0.6	D	D	D	0.4	D	D	D	D	D	0.7	D	D	D	0.7	D	D
Divorced	3.7	3.0	3.6	2.6	4.3	1.9	1.6	2.0	D	D	1.8	4.1	4.4	D	3.9	4.3	D	D
Marriage-like relationship	6.2	7.0	4.7	8.0	4.7	5.8	6.2	4.3	8.0	5.5	5.9	8.3	D	D	D	9.3		6.3
Widowed	0.2	0.2	D	D	D	0.1	D	D	D	D	D	0.2	0.4	D	0.2	0.2	D	D
Unknown	11.4	10.1	11.1	9.1	13.1	10.5	11.9	10.5	8.9	10.7	9.2	12.8	7.5	10.4	9.3	16.3	6.8	12.7
Bachelor's in same field as doctorate	52.9	47.7	45.1	49.4	42.9	62.0	69.2	48.0	49.0	64.3	71.3	53.0	50.7	56.1	49.2	63.9	46.6	22.3
Percent with master's	72.9	51.4	79.4	40.1	77.7	65.4	42.0	80.7	73.2	75.5	67.6	82.2	88.4	78.7	83.2	79.7	89.7	86.3
								١	Number									
Postgraduation status ^a																		
Definite postgraduation study	10,503	4,243	313	3,547	383		864	276	346	401	821	,	95	81	127	1,036	73	106
Definite employment	18,488	2,184	358	929	897	2,368	518	803	242	488		-,	163	680	476	995	311	493
Seeking employment or study	11,870	2,747	361	1,941	445	1,922	508	448	182	327		1,640	178	168	223	681	144	246
Other ⁶	1,649	711	28	624	59	209	70	40	12	25	62	176	8	25	30	71	18	24
								F	Percent									
Definite postgraduation study ^{c,d}	E2.2	E0.0	20.6	61.0	60.4	40 E	447	D	D	E0 C	25.7	60.0	70.6	EC 0	60.3	71 7	67.1	40.4
Postdoc fellowship Postdoc research associateship	53.3 42.0	59.0 36.4	32.6 65.2	61.0 34.6	62.4 29.8	42.5 55.8	44.7 53.8	D 59.4	D 59.8	58.6 38.9	35.7 63.2	69.0 22.5	72.6 D	56.8 D	69.3 26.0	71.7 17.3	67.1 D	49.1 45.3
Traineeship	1.4	1.3	00.2 D	1.1	29.0 D	1.1	55.6 D	2.2	59.6 D	30.9 D	03.2 D	1.6	D	D	20.0 D	17.3 D	D	45.3 D
Intern, clinical residency	2.2	2.8	D	3.0	D	0.3	D	2.2 D	D	D	D	5.4	D	D	D	D	D	D
Other study	1.0	0.4	D	0.3	D	0.3	D	D	D	D	0.0	1.6	0.0	0.0	D	1.7	D	D
outor olday	1.0	V7	J	0.0	0	0.0		ט	ט		0.0	1.0	5.0	0.0	D	1.7		

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

Definite employment* Academe 51,9 49,3 44,4 42,6 58,2 34,4 21,4 31,3 35,1 57,6 27,4 62,4 73,0 59,3 79,4 48, Government 67, 13,0 20,4 9,9 13,3 6,3 44, 21,4 31,3 35,1 57,6 27,4 62,4 73,0 59,3 79,4 48, Government 67, 13,0 20,4 9,9 13,3 6,3 44, 21,4 31,3 35,1 57,6 27,4 62,4 73,0 59,3 79,4 48, Industrybusiness* 26,1 26,3 26,3 37,6 14,6 54,3 68,5 62,8 40,5 32,6 53,6 13,7 14,1 18,1 5.3 18, Nonprofit 4,6 7,4 4,5 5,7 10,3 2,2 2,1 1,2 2,9 2,5 3,5 7,9 4,3 5,7 5,0 11, Other* 10,6 4,0 4,5 4,2 3,7 2,9 3,5 1,7 4,1 2,0 5,0 5,7 3,7 4,4 3,2 10, Primary activity** R&D 39,2 45,1 53,2 46,7 40,5 64,2 71,8 72,5 58,1 43,7 67,0 38,1 19,7 63,5 34,6 23, Teaching 35,7 28,7 25,9 24,6 33,7 25,3 17,6 20,2 23,5 45,7 20,6 36,5 55,6 23,6 52,9 28, Management or administration 14,2 11,4 9,2 10,5 13,1 3,6 4,6 2,9 5,1 2,7 4,1 7,6 10,6 3,2 7,4 7, Professional services 95,1 1,9 7,9 13,9 11,5 5,9 5,2 4,0 9,2 7,3 6,9 16,8 10,6 8,9 D 38, Other 13,3 29,3 8,4 3,1 2,1 1,0 8,0 4,1 1,0 7,1 4,1 1,3 5,0 8,0 D 1, Secondary activity** R&D 29,9 28,0 29,1 24,0 31,4 23,3 12,7 19,7 24,4 41,9 20,3 35,8 50,7 26,0 47,8 29, Teaching 18,2 16,9 18,7 12,0 21,0 9,0 4,1 12,0 12,0 12,2 2,4 26,0 19,0 36,8 28,8 18, Management or administration 114, 170, 15,8 19,3 15,3 15,3 13,3 16,9 5,5 14,7 6,9 18,2 9,3 85,9 0,4 2,1 1,2 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4								ields	Science f								_	
Academe	Sociology Other social sciences	Psychology	Political sciences/ international relations	Economics	Anthropology	Social sciences	Physics and astronomy	Mathematics	Earth, atmospheric and ocean sciences	Computer and information sciences	Chemistry	Physical sciences	Health sciences	Biological/biomedical sciences	Agricultural sciences/ natural resources	Life sciences		Characteristic fi
Government 6.7 13.0 20.4 9.9 13.3 6.3 4.4 3.0 17.4 5.3 10.4 10.3 4.9 12.5 7.1 12. Industry/business 26.1 26.3 26.3 37.6 14.6 54.3 68.5 62.8 40.5 32.6 53.6 13.7 14.1 18.1 5.3 18. Nonprofit 4.6 7.4 4.5 5.7 10.3 2.2 2.1 1.2 2.9 2.5 3.5 7.9 4.3 7.5 7.5 10.3 10.4 10.6 4.0 4.5 4.5 5.7 10.3 2.2 2.1 1.2 2.9 3.5 3.5 7.9 4.3 5.7 5.5 10.3 10.4 10.6 4.0 4.5 4.5 5.7 10.3 2.2 2.1 1.2 2.9 3.5 3.5 7.9 4.3 5.7 5.5 10.3 10.4 10.6 4.0 4.5 4.5 5.7 10.3 2.2 2.1 1.2 2.9 3.5 3.5 7.5 10.5 10.5 7.5 10.5 10.5 10.6 4.0 4.5 4.5 3.5 4.5 10.5 4.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10																		Definite employment ^e
Industry/business	84.2 61.9	48.2	79.4	59.3	73.0	62.4	27.4	57.6	35.1	31.3	21.4	34.4	58.2	42.6	44.4	49.3	51.9	Academe
Nonprofit 4.6 7.4 4.5 5.7 10.3 2.2 2.1 1.2 2.9 2.5 3.5 7.9 4.3 5.7 5.0 11. Other 10.6 10.6 4.0 4.5 4.2 3.7 2.9 3.5 1.7 4.1 2.0 5.0 5.7 3.7 4.4 3.2 10. There is a set of the set	2 4.8 11.0	12.2	7.1	12.5	4.9	10.3	10.4	5.3	17.4	3.0	4.4	6.3	13.3	9.9	20.4	13.0	6.7	Government
Other	5 4.8 11.4	18.5	5.3	18.1	14.1	13.7	53.6		40.5	62.8	68.5		14.6	37.6	26.3	26.3	26.1	Industry/business ^f
Primary activity Pi	4.5 10.8	11.0	5.0	5.7	4.3	7.9	3.5	2.5	2.9	1.2		2.2	10.3	5.7	4.5	7.4	4.6	Nonprofit
R&D 39.2 45.1 53.2 46.7 40.5 40.5 40.5 40.5 50.2 71.8 72.5 58.1 43.7 67.0 83.1 19.7 63.5 34.6 23.6 52.9 28.0 Management or administration 14.2 11.4 9.2 10.5 11.3 0.6 0.6 0.2 0.5 0.7 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	2 1.6 4.5	10.2	3.2	4.4	3.7	5.7	5.0	2.0	4.1	1.7	3.5	2.9	3.7	4.2	4.5	4.0	10.6	Other ⁹
R&D R&D R&D R&D R&D R&D R&D R&D																		Primary activity ^{h,i}
Management or administration 14.2 11.4 9.2 10.5 13.1 3.6 4.6 2.9 5.1 2.7 4.1 7.6 10.6 3.2 7.4 7.7 Professional services 9.5 11.9 7.9 13.9 11.5 5.9 5.2 4.0 9.2 7.3 6.9 10.6 8.9 D 3.8 Other 1.3 2.9 3.8 4.3 1.2 1.1 0.8 0.4 4.1 0.7 1.4 1.1 3.5 0.8 D 1.2 Secondary activity ^{hi} 8.D 2.9 2.8.0 29.1 24.0 31.4 23.3 12.7 19.7 24.4 41.9 20.3 35.8 50.7 26.0 47.8 29.2 Teaching 18.2 16.9 18.7 12.0 21.0 9.0 4.1 12.0 12.2 24.4 41.0 19.3 8.5 19.2 19.2 14.2 12.6 18.2 18.2	39.6 39.3	23.8	34.6	63.5	19.7	38.1	67.0	43.7	58.1	72.5	71.8	64.2	40.5	46.7	53.2	45.1	39.2	· · ·
Professional services 9.5 11.9 7.9 13.9 11.5 5.9 5.2 4.0 9.2 7.3 6.9 16.8 10.6 8.9 D 38. Other 1.3 2.9 3.8 4.3 1.2 1.1 0.8 0.4 4.1 0.7 1.4 1.1 3.5 0.8 D 1.3 Secondary activity R&D 29.9 28.0 29.1 24.0 31.4 23.3 12.7 19.7 24.4 41.9 20.3 35.8 50.7 26.0 47.8 29. R&D 29.9 28.0 29.1 24.0 12.0 9.0 4.1 12.0 12.0 12.0 12.2 2.4 26.0 19.0 36.8 28.8 18. Management or administration 11.4 17.0 15.8 19.3 15.3 13.3 21.6 9.5 14.7 6.9 18.2 9.3 8.5 9.0 4.2 12. Professional services 7.2 8.2 8.5 6.1 10.2 6.1 8.3 5.2 6.9 5.8 4.8 5.3 3.5 4.2 3.2 8. Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 10. 1.7 0.7 0.8 0.9 2. No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28. Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment location United States 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95. New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17. East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13. West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.	5 51.2 38.4	28.6	52.9	23.6	55.6	36.5	20.6	45.7	23.5	20.2	17.6	25.3	33.7	24.6	25.9	28.7	35.7	Teaching 3
Other 1.3 2.9 3.8 4.3 1.2 1.1 0.8 0.4 4.1 0.7 1.4 1.1 3.5 0.8 D 1.1 Secondary activity 1.1 Secondary 1.1 Seco	3 7.2 12.8	7.8	7.4	3.2	10.6	7.6	4.1	2.7	5.1	2.9	4.6	3.6	13.1	10.5	9.2	11.4	14.2	Management or administration 1
Secondary activity, R&D R&D 29.9 28.0 29.1 24.0 31.4 23.3 12.7 19.7 24.4 41.9 20.3 35.8 50.7 26.0 47.8 29.0 36.8 29.1 36.0 47.8 29.0 Teaching 18.2 16.9 18.7 12.0 21	5 D 8.4	38.5	D	8.9	10.6	16.8	6.9	7.3	9.2	4.0	5.2	5.9	11.5	13.9	7.9	11.9	9.5	Professional services
R&D 29.9 28.0 29.1 24.0 31.4 23.3 12.7 19.7 24.4 41.9 20.3 35.8 50.7 26.0 47.8 29.1 Teaching 18.2 16.9 18.7 12.0 21.0 9.0 4.1 12.0 12.2 2.4 26.0 19.0 36.8 28.8 18.2 Management or administration 11.4 17.0 15.8 19.3 15.3 13.3 21.6 9.5 14.7 6.9 18.2 9.3 8.5 9.0 4.2 12.2 Professional services 7.2 8.2 8.5 6.1 10.2 6.1 8.3 5.2 6.9 5.8 4.8 5.3 3.5 4.2 3.2 8.5 Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 1.0 1.7 0.8 0.9 2.0 1.0 1.0 1.7 0.7 0.8 0.9	2 D 1.	1.2	D	8.0	3.5	1.1	1.4	0.7	4.1	0.4	8.0	1.1	1.2	4.3	3.8	2.9	1.3	Other
Teaching 18.2 16.9 18.7 12.0 21.0 9.0 4.1 12.0 12.0 12.2 2.4 26.0 19.0 36.8 28.8 18.8 Management or administration 11.4 17.0 15.8 19.3 15.3 13.3 21.6 9.5 14.7 6.9 18.2 9.3 8.5 9.0 4.2 12.2 Professional services 7.2 8.2 8.5 6.1 10.2 6.1 8.3 5.2 6.9 5.8 4.8 5.3 3.5 4.2 3.2 8.5 Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 1.0 1.7 0.7 0.8 0.9 2.2 No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28.2 Activity(ies) unknown																		
Management or administration 11.4 17.0 15.8 19.3 15.3 13.3 21.6 9.5 14.7 6.9 18.2 9.3 8.5 9.0 4.2 12.2 Professional services 7.2 8.2 8.5 6.1 10.2 6.1 8.3 5.2 6.9 5.8 4.8 5.3 3.5 4.2 3.2 8.5 Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 1.0 1.7 0.7 0.8 0.9 2.8 No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28.2 Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment locatio																		
Professional services 7.2 8.2 8.5 6.1 10.2 6.1 8.3 5.2 6.9 5.8 4.8 5.3 3.5 4.2 3.2 8. Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 1.0 1.7 0.7 0.8 0.9 2. No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28. Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment location United States ⁱ 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95. <		18.9																9
Other 1.4 1.2 1.6 1.5 0.8 0.9 0.8 1.2 0.5 0.7 1.0 1.7 0.7 0.8 0.9 2.4 No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28.5 Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment location United States ⁱ 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95. New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atl		12.2																
No secondary activity 31.9 28.6 26.3 37.1 21.3 47.3 52.5 52.4 41.5 32.5 53.3 21.9 17.6 23.1 15.1 28.5 Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment location United States 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95.5 New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17.5 East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.5 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.5		8.2																
Activity(ies) unknown 9.8 10.2 11.7 13.0 6.7 8.5 6.9 9.5 10.3 8.0 8.2 9.9 12.9 9.0 9.5 11. Employment location United States 1 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95.1 New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5.1 Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17.4 East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.5 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.5		2.4																
Employment location United States 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95.1 New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17.4 East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.4 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.8 **Triangle Properties** **Triangle	5 15.7 18.9	28.5	15.1	23.1	17.6	21.9	53.3	32.5	41.5	52.4	52.5	47.3	21.3	37.1	26.3	28.6	31.9	No secondary activity
United States ⁱ 91.1 88.8 77.4 89.8 92.3 92.3 D 92.5 D 92.0 91.2 87.4 92.6 74.3 83.6 95. New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17. East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.6 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.8	5.8 11.	11.1	9.5	9.0	12.9	9.9	8.2	8.0	10.3	9.5	6.9	8.5	6.7	13.0	11.7	10.2	9.8	Activity(ies) unknown
New England 6.2 7.1 3.6 9.7 5.8 7.1 D 6.6 D 5.1 9.8 6.2 7.4 6.3 8.2 5. Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17. East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13. West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.8																		Employment location
Middle Atlantic 13.6 11.7 6.4 12.4 13.2 17.5 D 16.9 D 22.5 13.6 14.8 17.2 13.8 11.3 17.2 East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.8 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.8	91.0 88.0	95.6	83.6	74.3	92.6	87.4	91.2	92.0	D	92.5	D	92.3	92.3	89.8	77.4	88.88	91.1	United States ^j
East North Central 12.7 12.9 12.8 12.5 13.4 10.9 D 5.9 D 15.4 8.8 11.7 16.0 8.5 11.1 13.5 West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.5	8.7 4.	5.1	8.2	6.3	7.4	6.2	9.8	5.1	D	6.6	D	7.1	5.8	9.7	3.6	7.1	6.2	New England
West North Central 6.3 6.2 9.2 5.8 5.4 4.8 D 2.4 D 7.0 D 6.2 3.7 4.0 5.9 8.0	6 16.4 11.6	17.6	11.3	13.8	17.2	14.8	13.6	22.5	D	16.9	D	17.5	13.2	12.4	6.4	11.7	13.6	Middle Atlantic
		13.5	11.1	8.5	16.0		8.8		D	5.9		10.9	13.4					
South Atlantic 17.4 17.2 15.9 15.7 19.2 14.4 D 13.2 D 15.0 17.7 19.8 14.7 22.4 20.0 17.	5.5 5.5	8.6	5.9	4.0	3.7	6.2	D	7.0	D	2.4	D	4.8	5.4	5.8	9.2	6.2	6.3	West North Central
		17.7	20.0							13.2								
		D	4.4	D		3.4								3.9	5.3	5.4		
		8.4	6.7		6.1	6.6	7.3		D	5.7			10.5		8.1	8.4	8.8	West South Central
		6.4																
		14.1			16.6													
		4.4																
Location unknown 0.1 0.1 0.3 0.1 0.0 D D 0.0 0.0 0.0 0.1 0.0 0.1 0.2 0.1	0.0 0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	D	D	D	0.0	0.1	0.3	0.1	0.1	Location unknown

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

TABLE 30. Statistical profile of doctorate recipie	-				•				Science 1	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
								Med	dian years	3								
Age at doctorate	32.4	31.4	33.2	30.7	35.6	30.3	29.5	31.2	31.3	30.3	30.2	32.7	35.3	31.0	33.6	31.7	34.2	35.6
Time to doctorate																		
From bachelor's	9.4	8.6	9.7	8.0	12.2	7.7	6.9	8.7	8.5	7.6	7.5	9.6	12.0	8.3	10.5	8.6	10.9	12.0
From graduate school start	7.7	6.9	7.9	6.5	9.3	6.7	5.8	7.3	7.3	6.7	6.7	7.7	9.7	6.9	8.7	6.9	9.0	9.3
Male doctorate recipients																		
Number in field	26,271	5,220	702	3,854	664	5,856	1,479	1,386	547	966	1,478	3,121	189	717	517	998	235	465
% of total doctorate recipients	53.8	47.1	58.5	49.5	31.7	72.0	65.8	77.6	63.5	69.0	80.6	41.6	39.3	65.7	53.9	29.7	39.1	45.8
								F	Percent									
Citizenship																		
U.S. citizen and permanent resident	56.1	62.7	53.6	65.2	57.5	47.8	53.4	37.4	58.1	46.4	49.0	65.5		36.4	65.4	83.0		63.7
Temporary visa holder	38.0	31.4	41.7	29.3	32.5	47.0	40.2	57.8	38.0	47.7	46.6	28.2		56.8	29.0	8.6		31.8
Unknown	5.9	5.9	4.7	5.5	9.9	5.2	6.4	4.8	3.8	5.9	4.4	6.3	3.2	6.8	5.6	8.4	3.8	4.5
Marital status																		
Never married	28.5	27.6	20.5	30.2	19.9	34.5	35.2	32.3	25.6	38.2	36.7	25.9	27.0	33.2	27.3	22.4	22.6	21.9
Married	51.7	52.0	60.4	49.9	55.1	47.4	46.2	50.6	54.5	42.9	45.9	50.2	55.0	47.0	52.2	45.4	56.2	58.1
Separated	0.4	0.5	D	D	D	D	D	D	D	D	0.7	D	D	D	1.0	D	D	D
Divorced	2.2	1.9	D	1.6	D	1.7	D	D	D	D	D	3.1	D	D	D	D	D	3.7
Marriage-like relationship	5.5	6.7	3.8	7.4	5.4	5.4	5.1	4.4	7.3	5.8	5.8	7.0	7.4	5.7	6.0	8.8		4.5
Widowed	0.1	0.1	D	D	D	D	D	D	D	D	D	D	D	D	D	0.0	D	D
Unknown	11.6	11.3	11.1	10.4	16.9	10.6	12.0	10.2	9.1	11.6	9.2	13.3	5.3	11.9	10.8	19.1	7.2	11.8
Bachelor's in same field as doctorate	55.8	46.3	49.4	47.4	36.3	61.9	68.2	48.8	49.7	63.7	71.3	51.3	51.9	55.1	51.3	61.0	47.2	26.5
Percent with master's	71.7	48.8	81.2	39.7	67.5	65.9	42.7	80.1	76.6	73.1	67.2	81.1	87.8	76.7	83.6	77.1	88.9	87.3
								١	Number									
Postgraduation status ^a Definite postgraduation study	6,009	2,112	181	1,794	137	2,042	617	224	229	297	675	518	34	46	69	293	24	52
Definite employment	9,783	921	229	429	263	1,705	335	634	156	316	264	1,444	66	451	261	311	125	230
Seeking employment or study	6,214	1,194	191	886	117	1,703	294	329	107	227	346	642	77	103	109	187	59	107
Other ^b	837	366	14	334	18	136	41	31	6	13	45	59	0	16	16	12	6	9
									Percent									
Definite postgraduation study ^{c,d}						4	40.0					0.5.5	-c ·			a = -	45.5	4
Postdoc fellowship	48.4	57.4	33.1	59.9	57.7	41.6	43.9	37.5	D	59.6	D	62.9	79.4	52.2	60.9	67.9	45.8	44.2

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

	_								Science f	ields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
Postdoc research associateship	47.5	37.3	D	34.8	D	56.9	54.8	58.9	63.3	38.4	64.1	29.0	D	D	D	20.5	54.2	D
Traineeship	1.2	1.2	D	D	D	1.0	1.3	D	D	D	D	1.5	D	D	D	D	D	D
Intern, clinical residency	2.0	3.8	D	4.0	D	D	D	D	D	D	D	5.4	D	D	D	D	D	D
Other study	0.8	0.3	0.0	D	D	D	0.0	D	D	D	0.0	1.2	0.0	0.0	D	D	0.0	D
Definite employment after doctorate ^e																		
Academe	45.7	42.1	44.1	38.2	46.8	31.7	19.7	28.2	33.3	56.6	24.2	62.7	69.7	59.9	79.3	48.2	81.6	57.0
Government	7.4	14.8	21.8	10.3	16.0	6.1	4.2	2.4	19.2	5.4	10.6	11.6	D	12.9	10.0	11.9	D	16.5
Industry/business ^f	35.1	34.2	26.2	44.3	24.7	57.9	72.2	66.9	40.4	34.5	56.8	13.9	16.7	17.5	5.0	19.9	4.8	13.0
Nonprofit	3.8	5.5	3.9	4.4	8.7	1.9	D	D	D	D	D	6.7	D	5.3	D	10.6	D	10.0
Other ^g	8.0	3.4	3.9	2.8	3.8	2.4	D	D	D	D	D	5.0	D	4.4	D	9.3	4.0	3.5
Primary activity ^{h,i} R&D	48.4	52.1	59.0	50.8	48.4	68.2	76.0	75.8	61.9	46.5	69.4	44.1	17.5	64.2	36.0	28.6	42.7	42.6
Teaching	29.8	22.2	23.0	19.5	25.6	22.3	15.3	17.4	20.1	44.4	18.4	34.6	57.9	23.0	51.7	28.3	48.7	32.2
Management or administration	12.4	11.0	8.5	10.7	13.4	3.3	5.1	2.4	20.1 D	2.1	D	7.3	8.8	3.2	51.7 D	9.1	40.7 D	12.9
Professional services	8.2	11.5	5.0	14.7	11.8	5.1	3.2	4.0	D	5.9	D	12.7	10.5	8.6	4.7	33.3	D	10.4
Other	1.2	3.3	4.5	4.3	0.8	1.0	0.3	0.3	4.3	1.0	1.6	1.2	5.3	1.0	4.7 D	0.7	D	2.0
Secondary activity ^{h,i} R&D	27.2	05.4	28.0	25.1	23.6	20.7	12.1	17.4	20.9	20.4	10.0	25.0	EC 1	24.8	47.5	31.9	47.0	33.7
		25.4				20.7		17.4		38.1	18.8	35.2	56.1		47.5		47.0	
Teaching	17.3 13.2	16.5 20.4	22.0 17.5	11.0 22.7	20.3 19.1	8.5 14.5	4.2 24.6	10.7 9.8	D D	12.6 7.7	D D	29.9 9.1	14.0 D	39.0 10.0	30.5 4.7	22.5 11.2	32.5 D	24.3 11.9
Management or administration Professional services	7.1	8.7	8.0	7.5	11.0	6.6	9.9	9.o 5.5	D	7.7	D	5.6	D	4.4	3.4	9.1	D	7.4
Other	1.1	0.9	1.0	1.3	0.0	0.0	1.0	1.0	0.0	0.7	1.2	1.3	0.0	0.7	0.4	1.4	0.0	4.5
No secondary activity	34.1	28.3	23.5	32.4	26.0	48.8	48.2	55.4	43.2	33.9	54.7	18.8	19.3	21.1	13.6	23.9	10.3	18.3
Activity(ies) unknown	9.7	11.0	12.7	12.8	6.5	8.4	6.6	8.7	10.9	9.5	7.2	10.2	13.6	9.5	9.6	11.3	6.4	12.2
Employment location																		
United States ^j	89.5	85.3	72.9	89.0	90.1	92.3	D	92.6	D	91.5	91.7	83.6	92.4	72.1	82.0	95.5	89.6	86.1
New England	6.2	7.2	D	9.1	D	7.2	D	6.6	D	5.4	D	5.4	D	6.4	7.3	5.1	D	3.5
Middle Atlantic	13.3	10.1	4.8	11.7	12.2	17.8	D	16.2	D	24.7	13.6	13.1	15.2	13.3	11.1	14.8	17.6	9.6
East North Central	12.0	13.2	12.7	12.6	14.8	10.2	D	5.4	D	13.3	D	11.4	18.2	10.0	10.0	13.5	10.4	11.3
West North Central	5.4	5.9	8.3	5.4	4.6	3.8	D	2.1	D	5.4	D	5.2	D	3.8	5.0	7.7	D	5.7
South Atlantic	15.8	16.1	14.8	14.7	19.4	13.5	D	12.3	D	14.2	15.5	20.4	15.2	20.0	22.2	19.3	16.8	23.9
East South Central	4.3	5.5	5.7	5.1	6.1	2.5	D	D	D	5.4	D	3.9	D	D	5.0	D	D	3.9
West South Central	9.3	8.7	8.7	7.5	10.6	8.8	D	6.0	D	8.5	6.4	6.3	D	3.5	7.7	7.4	5.6	D
Mountain	5.2	4.3	4.4	4.7	3.8	3.8	D	D	D	2.5	D	5.0	9.1	D	3.1	7.1	8.0	D

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

	_				-				Science f	ields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
Pacific and insular	17.7	14.0	9.6	18.2	11.0	24.3	D	38.5	D	12.0	24.6	13.0	18.2	10.0	10.7	15.8	16.8	13.9
Not in United States	10.3	14.5	26.6	11.0	9.9	D	6.9	D	D	8.5	8.3	16.3	7.6	27.7	18.0	4.5	10.4	13.9
Location unknown	0.1	0.1	0.4	0.0	0.0	D	D	D	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0
								Ma	dian years									
Age at doctorate	32.0	31.5	33.6	30.9	33.8	30.4	29.8	30.9	31.8	30.2	30.2	33.3	35.9	31.5	33.7	32.8	34.5	35.7
Age at doctorate	32.0	31.3	33.0	50.5	55.0	30.4	23.0	30.3	31.0	30.2	30.2	55.5	55.5	31.3	55.1	32.0	J4.J	55.1
Time to doctorate																		
From bachelor's	9.0	8.4	10.0	8.0	10.7	7.7	7.0	8.5	8.8	7.5	7.6		12.3	8.6	10.4		11.1	12.0
From graduate school start	7.4	6.8	8.2	6.7	8.3	6.7	6.0	7.3	7.7	6.7	6.7	7.9	9.7	7.0	8.7	7.0	9.3	9.1
Female doctorate recipients																		
Number in field	22,496	5,854	499	3,929	1,426	2,271	768	400	314	433	356	4,387	292	374	442	2,362	366	551
% of total doctorate recipients	46.1	52.8	41.5	50.4	68.1	27.9	34.2	22.4	36.4	30.9	19.4	58.4	60.7	34.3	46.1	70.3	60.9	54.2
								F	Percent									
Citizenship																		
U.S. citizen and permanent resident	71.3	68.3	54.3	66.7	77.5	54.1	56.9	44.0	68.5	50.6	50.8	78.3	83.6	38.5	68.6	87.1	80.6	70.6
Temporary visa holder	23.4	27.5	39.9	29.7	16.9	40.7	36.7	51.0	26.8	44.6	45.2	16.6	11.6	57.2	28.1	6.8	16.7	24.5
Unknown	5.3	4.3	5.8	3.6	5.6	5.2	6.4	5.0	4.8	4.8	3.9	5.1	4.8	4.3	3.4	6.1	2.7	4.9
Marital status																		
Never married	25.9	29.6	31.7	32.5	21.0	32.6	35.3	23.8	34.1	32.8	35.4	26.5	25.7	38.2	27.1	25.8	20.5	25.4
Married	49.6	49.4	46.1	47.2	56.7	47.5	41.9	57.5	45.2	51.0	45.8	46.0	47.9	44.4	50.9	43.8	54.9	45.4
Separated	0.7	0.6	D	D	0.8	D	D	D	D	D	D	D	D	D	D	D	D	D
Divorced	5.4 6.9	4.0 7.3	D 5.8	3.5 8.5	D 4.4	2.5 6.7	D 8.3	D 4.0	D 9.2	D 4.8	D 6.5	4.9 9.2	D 10.6	D 6.7	D 8.4	D 9.5	D 12.3	D 7.8
Marriage-like relationship Widowed	0.4	0.2	5.0 D	0.5 D	4.4 D	6.7 D	0.3 D	4.0 D	9.2 D	4.0 D	0.5 D	9.2 D	10.6 D	0.7 D	0.4 D	0.3	0.0	7.0 D
Unknown	11.0	8.8	11.0	7.6	11.2	10.1	11.7	11.3	8.3	8.5	9.0	12.4	8.9	7.8	7.5	15.1	6.6	13.4
Bachelor's in same field as doctorate	49.6	49.1	39.1	51.5	46.1	62.4	71.2	45.3	47.8	65.8	71.1	54.3	50.0	58.0	46.8	65.2	46.2	18.9
Percent with master's	74.5	53.9	76.8	40.6	82.6	64.0	40.5	83.0	67.5	81.1	69.4	83.1	88.7	82.6	82.8	80.8	90.2	85.5
								١	Number									
Postgraduation status ^a																		
Definite postgraduation study	4,494	2,131	132	1,753	246	666	247	52	117	104	146	1,000	61	35	58	743	49	54
Definite employment	8,705	1,263	129	500	634	663	183	169	86	172	53	1,674	97	229	215	684	186	263
Seeking employment or study	5,656	1,553	170	1,055	328	619	214	119	75	100	111	998	101	65	114	494	85	139
Other ^b	812	345	14	290	41	73	29	9	6	12	17	117	8	9	14	59	12	15

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

LL 30. Statistical profile of doctorate recipier	_								Science f	fields								
acteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
									Percent									
Definite postgraduation study ^{c,d}								'	CICCIII									
Postdoc fellowship	59.9	60.6	31.8	62.2	65.0	45.0	46.6	D	D	55.8	D	72.1	68.9	62.9	79.3	73.2	77.6	53
Postdoc research associateship	34.6	35.5	D	34.3	D	52.4	51.4	61.5	53.0	40.4	58.9	19.1	D	37.1	D	16.0	D	
Traineeship	1.7	1.4	D	D	3.7	1.4	D	D	D	D	D	1.6	D	D	D	D	0.0	
Intern, clinical residency	2.4	1.9	D	2.0	2.0	D	D	D	D	D	D	5.4	D	D	D	D	0.0	
Other study	1.3	0.6	D	D	D	D	D	D	0.0	D	0.0	1.8	0.0	0.0	D	D	D	
Definite employment after doctorate ^e																		
Academe	59.0	54.6	45.0	46.4	62.9	41.5	24.6	42.6	38.4	59.3	43.4	62.2	75.3	58.1	79.5	48.2	86.0	66
Government	6.0	11.7	17.8	9.6	12.1	6.6	4.9	5.3	14.0	5.2	9.4	9.1	D	11.8	3.7	12.3	D	7
Industry/business ^f	16.0	20.5	26.4	31.8	10.4	44.9	61.7	47.3	40.7	29.1	37.7	13.4	12.4	19.2	5.6	17.8	4.8	ç
Nonprofit	5.4	8.7	5.4	6.8	10.9	2.9	D	D	D	D	D	8.9	D	6.6	D	11.1	D	11
Other ^g	13.6	4.5	5.4	5.4	3.6	4.1	D	D	D	D	D	6.4	D	4.4	D	10.5	0.0	5
Primary activity ^{h,i}																		
R&D	28.8	40.1	43.1	43.1	37.2	53.6	63.9	59.5	51.3	38.7	54.3	32.9	21.2	62.1	32.8	21.7	37.5	36
Teaching	42.4	33.4	31.0	29.0	37.1	32.9	21.9	31.1	29.5	47.9	32.6	38.0	54.1	24.6	54.4	28.7	52.8	43
Management or administration	16.2	11.7	10.3	10.4	13.0	4.3	3.6	4.7	D	3.7	D	7.9	11.8	3.3	D	7.2	D	12
Professional services	11.1	12.2	12.9	13.1	11.3	7.9	8.9	4.1	D	9.8	D	20.2	10.6	9.5	D	40.9	D	6
Other	1.5	2.6	2.6	4.4	1.4	1.2	1.8	0.7	3.8	0.0	0.0	1.0	2.4	0.5	D	1.5	D	0
Secondary activity ^{h,i}																		
R&D	32.9	29.9	31.0	23.0	34.7	30.0	13.6	28.4	30.8	48.5	28.3	36.4	47.1	28.4	48.2	28.9	44.3	43
Teaching	19.2	17.3	12.9	12.9	21.3	10.3	4.1	16.9	D	11.7	D	22.6	22.4	32.7	26.7	17.2	27.3	20
Management or administration	9.4	14.6	12.9	16.4	13.7	10.4	16.0	8.1	D	5.5	D	9.5	D	7.1	3.6	12.6	D	11
Professional services	7.4	7.9	9.5	4.8	9.8	5.0	5.3	4.1	D	3.7	D	5.0	D	3.8	3.1	7.9	D	3
Other	1.7	1.5	2.6	1.6	1.2	1.0	0.6	2.0	1.3	0.6	0.0	2.0	1.2	0.9	1.5	2.8	1.7	1
No secondary activity	29.5	28.8	31.0	41.2	19.3	43.4	60.4	40.5	38.5	30.1	45.7	24.5	16.5	27.0	16.9	30.5	19.3	19
Activity(ies) unknown	9.9	9.7	10.1	13.2	6.8	8.9	7.7	12.4	9.3	5.2	13.2	9.7	12.4	7.9	9.3	11.0	5.4	10
Employment location																		
United States ^j	92.9	91.3	85.3	90.4	93.2	92.3	D	92.3	D	93.0	88.7	90.7	92.8	78.6	85.6	95.6	91.9	90
New England	6.1	7.0	D	10.2	D	6.8	D	6.5	D	4.7	D	6.9	D	6.1	9.3	5.1	D	5
Middle Atlantic	13.9	12.9	9.3	13.0	13.6	16.7	D	19.5	D	18.6	13.2	16.2	18.6	14.8	11.6	18.9	15.6	13
East North Central	13.5	12.7	13.2	12.4	12.8	12.5	D	7.7	D	19.2	D	12.1	14.4	5.7	12.6	13.5	10.8	13
West North Central	7.3	6.4	10.9	6.2	5.7	7.4	D	3.6	D	9.9	D	7.0	D	4.4	7.0	9.1	D	6
South Atlantic	19.2	18.0	17.8	16.6	19.1	16.7	D	16.6	D	16.3	28.3	19.4	14.4	27.1	17.2	17.0	17.7	23

TABLE 38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2008

	_								Science f	ields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
East South Central	5.3	5.4	4.7	2.8	7.6	3.2	D	D	D	5.2	D	3.0	D	D	3.7	D	D	2.7
West South Central	8.4	8.2	7.0	5.6	10.4	8.4	D	4.7	D	3.5	11.3	6.8	D	5.2	5.6	8.9	4.8	D
Mountain	5.6	5.5	6.2	4.6	6.2	2.6	D	D	D	3.5	D	5.1	6.2	D	3.3	6.1	5.9	D
Pacific and insular	13.2	15.0	12.4	18.6	12.6	17.3	D	28.4	D	11.6	11.3	13.9	15.5	11.4	15.3	13.3	16.7	13.7
Not in United States	7.0	8.6	14.7	9.4	6.8	D	4.9	D	D	7.0	11.3	9.3	7.2	21.4	14.0	4.4	8.1	9.1
Location unknown	0.1	0.1	0.0	0.2	0.0	D	D	D	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0
								Med	dian years									
Age at doctorate	32.8	31.3	32.7	30.4	36.7	30.0	29.1	31.7	30.9	30.3	30.0	32.2	34.9	30.2	33.4	31.2	33.9	35.5
Time to doctorate																		
From baccalaureate	10.0	8.7	9.4	8.0	13.0	7.7	6.6	9.8	8.2	8.0	7.4	9.3	11.5	8.0	10.5	8.5	10.7	12.0
From graduate school start	8.0	6.9	7.6	6.4	9.9	6.6	5.7	7.7	7.0	6.3	6.7	7.7	9.4	6.7	8.3	6.9	8.7	9.7

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

^a Includes only respondents who responded to post graduation status.

b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

^g "Other" is mainly composed of elementary and secondary schools.

^h Includes only respondents with definite employment plans.

¹Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

¹ Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE 39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2008

	_				Engir	neering field	ds			
			Aerospace/	Chemical	Civil and	Electrical and		Materials/	Mechanical	
Characteristic	All fields	Total	aeronautical	and related	related	related	Industrial	metallurgical	and related	Other
All doctorate recipients (number)	48,802	7,862	265	964	865	2,299	281	665	1,139	1,384
					Perce	ent				
Sex	F2.0	70.4	00.0	74.0	70.0	00.0	74.0	70.4	05.7	00.0
Male Female	53.8	78.4 21.5	89.8 10.2	74.3 25.7	76.9 23.1	83.0 16.9	71.2 28.5	76.4 23.5	85.7 14.0	68.8 31.0
Unknown	46.1 0.1	0.1	0.0	0.0	0.0	0.0	20.5	23.5 0.2	0.4	0.2
	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.2	0.4	0.2
Citizenship	62.4	27.5	45.7	40.0	24.0	20.0	22.0	44.4	24.0	53.0
U.S. citizen or permanent resident	63.1 31.2	37.5 57.1	45.7 47.5	42.3	31.2 63.2	28.9 65.7	32.0 62.6	41.4 53.4	34.0 60.4	41.3
Temporary visa holder Unknown	51.2 5.7	5.4	6.8	53.0 4.7	5.5	5.4	5.3	5.3	5.6	5.7
Marital status										
Never married	27.3	34.5	34.3	40.7	28.7	34.2	30.6	37.6	34.4	33.6
Married	50.7	49.4	44.2	43.8	54.9	50.8	53.4	45.4	51.6	47.7
Separated	0.5	0.3	0.0	70.0 D	D	D	D	D	D	D
Divorced	3.7	1.5	D	D	2.2	1.2	D	D	D	2.0
Marriage-like relationship	6.2	3.9	4.2	5.4	D	2.8	D	5.4	3.2	5.1
Widowed	0.2	0.1	D	D	D	o	D	D	D	D
Unknown	11.4	10.5	14.0	8.9	10.6	10.5	11.7	10.4	9.7	11.3
Bachelor's in same field as doctorate	52.9	76.5	79.2	83.0	75.6	77.3	74.0	74.3	82.7	67.0
Percent with master's	72.9	77.4	87.2	57.1	88.0	85.3	86.5	69.5	83.1	67.6
					Numb	er				
Postgraduation status ^a										
Definite postgraduation study	10,503	1,343	46	201	142	246	16	141	191	360
Definite employment	18,488	3,024	116	384	323	981	128	248	443	401
Seeking employment or study	11,870	2,267	66	246	264	715	86	184	332	374
Other ^b	1,649	202	2	22	17	48	7	16	25	65
- c					Perce	ent				
Definite postgraduation study ^{c,d} Postdoc fellowship	53.3	33.0	D	37.3	22.5	24.0	D	D	D	43.9
'		63.8		60.2	73.2	72.8	62.5	64.5	72.3	51.1
Postdoc research associateship Traineeship	42.0 1.4	1.2	65.2 D	00.2 D	73.2 D	72.0 D	02.5 D	04.5 D	72.3 D	51.1 D
Intern, clinical residency	2.2	0.8	D	D	D	D	D	D	D	D
Other study	1.0	1.2	0.0	D	D	D	D	0.0	D	D
Definite employment ^e										
Academe	51.9	17.4	17.2	7.6	28.5	13.8	37.5	12.1	17.4	23.4
Government	6.7	7.9	16.4	2.9	15.2	4.9	D	D	8.6	11.2
Industry/business ^f	26.1	70.7	61.2	86.2	53.6	77.4	53.9	77.0	70.7	57.6
Nonprofit	4.6	2.2	D	1.8	D	2.1	D	D	2.0	4.7
Other ^g	10.6	1.8	D	1.6	D	1.8	D	D	1.4	3.0
Primary activity ^{h,i}										
R&D	39.2	74.0	75.2	81.8	39.2	85.0	47.3	84.4	76.9	64.8
Teaching	35.7	9.0	10.5	6.0	14.9	6.6	25.0	5.3	8.4	10.7
Management or administration	14.2	5.6	7.6	2.3	11.1	3.4	9.8	4.0	4.8	9.6
Professional services	9.5	10.3	6.7	8.5	33.0	4.4	16.1	4.9	8.9	13.2
Other	1.3	1.1	0.0	1.4	1.7	0.7	1.8	1.3	1.0	1.6
Secondary activity ^{h,i}										
R&D	29.9	14.5	17.1	9.1	27.4	10.3	27.7	8.9	15.7	17.0
Teaching	18.2	8.6	4.8	2.8	15.6	6.4	16.1	4.9	8.9	14.8
Management or administration	11.4	18.4	20.0	24.7	10.8	15.6	9.8	27.1	20.2	19.8
Professional services	7.2	7.3	9.5	7.1	10.8	5.7	5.4	9.3	7.5	7.1

TABLE 39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2008

	_				Engi	neering field	ds			
			. ,			Electrical				
Characteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	and related	Industrial	Materials/ metallurgical	Mechanical and related	Other
Other	1.4	0.8	1.9	0.6	1.0	0.4	2.7	0.4	0.5	1.1
No secondary activity	31.9	50.5	46.7	55.7	34.4	61.6	38.4	49.3	47.2	40.1
Activity(ies) unknown	9.8	8.9	9.5	8.3	10.8	8.8	12.5	9.3	6.3	9.2
Employment location	0.0	0.0	5.0	0.0	10.0	0.0	12.0	0.0	0.0	J.2
United States ⁱ	91.1	89.7	87.9	90.6	86.7	D	D	D	89.4	90.5
New England	6.2	6.3	4.3	6.5	5.0	D	D	D	5.6	8.2
Middle Atlantic	13.6	11.8	D	19.3	9.0	D	D	D	9.3	15.0
East North Central	12.7	10.7	12.1	13.5	8.0	D	D	D	19.4	8.2
West North Central	6.3	3.4	6.9	2.6	4.3	D	D	D	2.5	3.7
South Atlantic	17.4	12.2	14.7	8.6	18.3	D	D	D	10.8	16.7
East South Central	4.8	2.6	5.2	2.9	4.0	D	D	D	3.2	4.7
West South Central	8.8	10.8	6.0	18.5	11.5	D	D	D	12.6	8.2
Mountain	5.4	5.6	D.0	3.4	7.7	D	D	D	5.4	5.7
Pacific and insular	15.6	25.8	28.4	14.6	17.6	D	D	D	20.1	20.0
Not in United States	8.8	20.0 D	12.1	9.4	D	D	D	12.1	10.2	9.2
Location unknown	0.0	D	0.0	0.0	D	0.2	0.8	D	0.5	0.2
LOCATION AND AND AND AND AND AND AND AND AND AN	0.1		0.0	0.0	Median		0.0	D	0.0	0.2
		00.5	20.0	20.4			20.7		00.7	
Age at doctorate	32.4	30.5	30.6	29.4	31.8	30.8	30.7	29.9	30.7	30.2
Time to doctorate										
From bachelor's	9.4	7.9	7.8	6.7	8.7	8.2	8.2	7.3	7.9	7.6
From graduate school start	7.7	6.7	7.0	5.7	7.6	7.2	7.2	6.3	6.7	6.7
Male doctorate recipients										
Number in field	26,271	6,164	238	716	665	1,909	200	508	976	952
% of total doctorate recipients	53.8	78.4	89.8	74.3	76.9	83.0	71.2	76.4	85.7	68.8
					Perc	ent				
Citizenship	EG 1	25.6	45.4	20.4	07.0	20.2	07 F	40.7	20.6	50.6
U.S. citizen or permanent resident	56.1 38.0	35.6 59.1	45.4	39.4	27.8 65.6	29.2 65.8	27.5	40.7	32.6	
Temporary visa holder			48.7	55.6			68.0	53.9	62.2	43.8
Unknown	5.9	5.3	5.9	5.0	6.6	5.0	4.5	5.3	5.2	5.6
Marital status										
Never married	28.5	34.6	35.3	41.3	27.7	35.2	32.5	37.2	34.3	32.1
Married	51.7	49.7	45.4	42.7	55.8	50.3	53.5	44.9	52.2	49.7
Separated	0.4	D	D	D	D	D	D	D	D	D
Divorced	2.2	1.2	D	D	1.7	D	D	D	D	D
Marriage-like relationship	5.5	3.7	D	D	D	2.9	D	D	D	4.3
Widowed	0.1	D	D	D	D	D	D	D	D	D
Unknown	11.6	10.5	13.9	9.2	11.3	10.2	11.0	10.6	9.3	12.0
Bachelor's in same field as doctorate	55.8	77.2	80.3	82.8	76.7	77.7	75.0	73.8	83.1	67.5
Percent with master's	71.7	78.4	87.4	56.8	87.2	85.2	85.5	69.7	83.8	70.5
					Num	ber				
Postgraduation status ^a										
Definite postgraduation study	6,009	1,043	D	144	118	201	D	118	168	239
Definite employment	9,783	2,416	D	286	239	834	D	190	375	302
Seeking employment or study	6,214	1,745	61	184	199	586	60	131	289	235
Other ^b	837	140	2	12	10	35	6	11	22	42
					Pero	ent				
Definite postgraduation study ^{c,d}	48.4	20.0	r	24.0	_	Б	Г	Г	D	40.7
Postdoc fellowship Postdoc research associateship	48.4 47.5	30.9 66.1	D D	34.0 D	D 75.4	D 71.6	D D	D 66.9	73.2	42.7 52.3
ו טפנעטט ופפפוטוו מפפטטמנפפוווף	41.3	00.1	D	U	10.4	11.0	U	00.9	13.2	J2.J

TABLE 39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2008

Traineeship Intern, clinical residency Other study Definite employment after doctorate ^e Academe Government Industry/business ^f	All fields 1.2 2.0 0.8 45.7 7.4 35.1 3.8	Total D D D	Aerospace/ aeronautical D D 0.0	Chemical and related D D	Civil and related D D	Electrical and related	Industrial D	Materials/ metallurgical	Mechanical and related	Oth
Traineeship Intern, clinical residency Other study Definite employment after doctorate ^e Academe Government	1.2 2.0 0.8 45.7 7.4 35.1	D D D	aeronautical D D	and related D D	related D	related		metallurgical		Oth
Intern, clinical residency Other study Definite employment after doctorate® Academe Government	2.0 0.8 45.7 7.4 35.1	D D	D	D		D	D			
Other study Definite employment after doctorate ^e Academe Government	0.8 45.7 7.4 35.1	D 16.1			n		D	D	D	
Other study Definite employment after doctorate ^e Academe Government	45.7 7.4 35.1	16.1	0.0	D	U	D	D	D	D	
Academe Government	7.4 35.1				D	D	D	0.0	D	
Government	7.4 35.1									
	35.1		D	7.3	27.2	13.2	D	D	15.5	22
Industry/business ^f		8.1	D	2.1	D	D	D	8.9	D	11
	2.0	72.1	D	87.4	54.8	77.9	D	79.5	72.8	59
Nonprofit		2.1	D	D	D	D	D	D	D	
Other ^g	8.0	1.7	D	D	D	1.4	D	D	D	
Primary activity ^{h,i}										
R&D	48.4	75.8	78.5	82.4	41.1	85.7	51.3	84.9	78.1	6
Teaching	29.8	7.7	D	D	12.6	6.1	D	D	7.4	
Management or administration	12.4	6.0	8.6	D	12.6	D	D	5.2	D	1
Professional services	8.2	9.6	D	9.2	31.3	D	11.8	D	D	1
Other	1.2	0.9	0.0	1.5	2.3	0.5	0.0	1.2	0.3	
Secondary activity ^{h,i}			_				_			
R&D	27.2	13.7	D	9.6	27.1	9.8	D	7.6	14.5	1
Teaching	17.3	8.3	5.4	D	17.3	6.3	14.5	6.4	D	_
Management or administration	13.2	19.5	22.6	D	11.2	16.4	D	27.3	21.6	2
Professional services	7.1	7.4	D	7.7	10.3	5.5	D	9.3	D	
Other	1.1 34.1	0.8 50.3	2.2 46.2	0.8 52.9	1.4 32.7	0.5	1.3	0.0	0.6 47.4	,
No secondary activity						61.6	38.2	49.4		3
Activity(ies) unknown	9.7	8.6	9.7	8.7	10.5	7.9	12.6	9.5	6.1	
Employment location						_	_	_		
United States	89.5	89.6	87.4	90.9	85.4	D	D	D	90.1	Ś
New England	6.2	6.0	D	4.9	4.6	D	D	D	4.8	
Middle Atlantic	13.3	11.5	D	19.6	8.4	D	D	D	9.3	1
East North Central West North Central	12.0	10.6	D	12.9	8.4 3.8	D D	D D	D	19.2	
South Atlantic	5.4 15.8	3.4 12.0	D D	D 9.4	3.6 15.9	D	D	D D	2.9 D	
East South Central	4.3	2.7	D	9.4 D	15.9 D	D	D	D	D	
West South Central	9.3	11.1	D	19.6	11.7	D	D	D	D	
Mountain	9.3 5.2	5.8	D	19.0 D	7.9	D	D	D	D	
Pacific and insular	17.7	26.0	27.2	14.3	18.4	D	D	D	20.0	
Not in United States	10.3	20.0 D	12.6	9.1	10.4 D	D	D	10.5	9.3	
Location unknown	0.1	D	0.0	0.0	D	0.2	0.0	D	0.5	
Locaton anatown	0.1	5	0.0	0.0	Median		0.0	5	0.0	
Age at doctorate	32.0	30.7	30.7	29.5	32.2	30.9	31.3	29.9	30.8	3
	32.0	30.7	30.7	25.3	J2.Z	30.3	31.3	23.3	50.0	•
Time to doctorate From bachelor's	9.0	8.0	7.9	6.9	8.9	8.3	8.5	7.3	8.0	
From graduate school start	7.4	6.9	6.9	5.8	7.7	7.2	7.3	6.3	6.7	
	-									
Female doctorate recipients	20 :									
Number in field	22,496	1,688	27	248	200	389	80	156	159	
% of total doctorate recipients	46.1	21.5	10.2	25.7	23.1	16.9	28.5	23.5	14.0	(
Citizanship					Perce	ent				
Citizenship U.S. citizen or permanent resident	71.3	44.6	48.1	50.8	42.5	27.2	43.8	43.6	43.4	Ę
Temporary visa holder	23.4	50.1	37.0	50.6 45.6	42.5 55.5	65.6	43.0 50.0	43.6 51.9	50.9	3
Unknown	5.3	5.3	14.8	3.6	2.0	7.2	6.3	4.5	50.9	3

TABLE 39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2008

	_				Engi	neering field	ds			
			Aaraanaaal	Chamiaal	Civil and	Electrical		Meteriale/	Machanical	
racteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	related	and related	Industrial	Materials/ metallurgical	Mechanical and related	Oth
Marital status										
Never married	25.9	34.4	25.9	38.7	32.0	29.6	26.3	39.1	35.8	3
Married	49.6	48.6	33.3	46.8	52.0	53.7	53.8	47.4	49.7	4
Separated	0.7	D	0.0	0.0	0.0	D	0.0	0.0	D	
Divorced	5.4	2.3	D	D	4.0	D	D	D	D	
Marriage-like relationship	6.9	4.5	D	D	3.5	2.6	D	D	D	
Widowed	0.4	D	D	0.0	0.0	0.0	0.0	D	0.0	
Unknown	11.0	9.8	14.8	8.1	8.5	11.6	12.5	9.0	9.4	
Bachelor's in same field as doctorate	49.6	74.4	70.4	83.5	72.0	75.6	72.5	76.3	82.4	6
Percent with master's	74.5	74.2	85.2	57.7	90.5	85.6	90.0	69.2	80.5	6
1 Greent with master 3	74.5	14.2	00.2	51.1	Numb		50.0	05.2	00.0	
Postgraduation status ^a					Num)CI				
Definite postgraduation study	4,494	300	D	57	24	45	D	23	23	
Definite employment	8,705	608	D	98	84	147	D	58	68	
Seeking employment or study	5,656	522	5	62	65	129	26	53	43	
Other ^b	812	62	0	10	7	13	1	5	3	
					Perce	ent				
Definite postgraduation study ^{c,d}										
Postdoc fellowship	59.9	40.3	D	45.6	D	D	D	47.8	34.8	4
Postdoc research associateship	34.6	56.0	D	D	62.5	77.8	D	52.2	65.2	4
Traineeship	1.7	D	0.0	D	0.0	D	0.0	0.0	0.0	
Intern, clinical residency	2.4	D	0.0	0.0	D	0.0	0.0	0.0	0.0	
Other study	1.3	D	0.0	D	0.0	0.0	0.0	0.0	0.0	
Definite employment after doctorate ^e			_			4= 0	_	_		
Academe	59.0	22.5	D	8.2	32.1	17.0	D	D	27.9	2
Government	6.0	7.2	0.0	5.1	D	D	D	D	D	1
Industry/business ^f	16.0	65.1	D	82.7	50.0	74.1	D	69.0	58.8	į
Nonprofit	5.4	2.8	D	D	D	D	0.0	0.0	D	
Other ^g	13.6	2.3	0.0	D	0.0	4.1	D	0.0	D	
Primary activity ^{h,i}										
R&D	28.8	66.7	50.0	80.2	33.8	81.1	38.9	83.0	69.8	(
Teaching	42.4	14.3	D	D	21.6	9.4	D	D	14.3	
Management or administration	16.2	3.8	0.0	D	6.8	D	D	0.0	D	
Professional services	11.1	13.2	D	6.6	37.8	D	25.0	D	D	
Other	1.5	2.0	0.0	1.1	0.0	1.6	5.6	1.9	4.8	
Secondary activity ^{h,i}										
R&D	32.9	17.7	D	7.7	28.4	13.4	D	13.2	22.2	
Teaching	19.2	9.7	0.0	D	10.8	7.1	19.4	0.0	D	
Management or administration	9.4	14.1	0.0	D	9.5	11.0	D	26.4	12.7	
Professional services	7.4	6.8	D	5.5	12.2	7.1	D	9.4	D	
Other	1.7	0.7	0.0	0.0	0.0	0.0	5.6	1.9	0.0	
No secondary activity	29.5	51.0	50.0	63.7	39.2	61.4	38.9	49.1	46.0	4
Activity(ies) unknown	9.9	10.0	7.7	7.1	11.9	13.6	12.2	8.6	7.4	
Employment location										
United States ^j	92.9	90.1	92.3	89.8	90.5	D	D	D	85.3	ç
New England	6.1	7.7	D	11.2	6.0	D	D	D	10.3	1
Middle Atlantic	13.9	13.0	D	18.4	10.7	D	D	D	8.8	
East North Central	13.5	11.2	D	15.3	7.1	D	D	D	20.6	4
West North Central	7.3	3.3	D	D	6.0	D	D	D	0.0	
South Atlantic	19.2	13.0	D	6.1	25.0	D	D	D	0.0 D	1
East South Central	5.3	2.1	D	0.1 D	23.0 D		D	D	D	
East South Cellial	5.5	۷.۱	ט	ט	U	D	ט	D	ט	

TABLE 39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2008

	_				Engi	neering field	ds			
Characteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/ metallurgical	Mechanical and related	Other
West South Central	8.4	9.5	D	15.3	10.7	D	D	D	D	7.1
Mountain	5.6	4.9	D	D	7.1	D	D	D	D	8.1
Pacific and insular	13.2	25.0	38.5	15.3	15.5	D	D	D	20.6	21.2
Not in United States	7.0	D	7.7	10.2	D	D	D	17.2	14.7	8.1
Location unknown	0.1	D	0.0	0.0	D	0.0	2.4	D	0.0	0.0
					Median	years				
Age at doctorate	32.8	29.9	29.8	29.2	30.6	30.6	30.1	29.9	30.2	29.3
Time to doctorate										
From baccalaureate	10.0	7.4	7.8	6.4	8.2	8.1	7.5	7.4	7.8	7.0
From graduate school start	8.0	6.6	7.5	5.5	7.1	7.2	6.5	6.3	7.0	6.2

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

^a Includes only respondents who responded to post graduation status.

b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

⁹ "Other" is mainly composed of elementary and secondary schools.

^h Includes only respondents with definite employment plans.

¹ Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

¹ Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	cience and	engineering f	ields						
										Human	ities				Other f	ields	
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	English language/ literature	Foreign language/ literature	History	Other	Total	Business and management	Communi- cations	Fields nec
All doctorate recipients (number)	48,802	6,578	2,248	2,649	274	909	498	4,722	338	553	627	969	2,235	2,914	1,437	556	921
									Percent								
Sex																	
Male	53.8	32.9	39.9	28.8	21.2	31.8	31.3	47.8	39.1	33.1	35.2	57.8	51.9	51.2	60.5	41.7	42.2
Female	46.1	67.1	60.1	71.2	78.8	68.2	68.7	52.2	60.9	66.9	64.8	42.2	48.1	48.6	39.3	58.1	57.4
Unknown	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.3
Citizenship																	
U.S. citizen or permanent resident	63.1	85.0	90.0	83.8	85.8	79.0	79.3	79.1	93.5	81.7	61.9	82.5	79.7	59.8	49.1	72.3	69.2
Temporary visa holder	31.2	8.6	2.7	11.4	9.9	14.9	8.0	14.8	5.3	11.2	30.6	12.5	13.7	33.0	43.5	20.7	24.2
Unknown	5.7	6.4	7.3	4.8	4.4	6.2	12.7	6.1	1.2	7.1	7.5	5.1	6.6	7.1	7.4	7.0	6.6
Marital status																	
Never married	27.3	13.6	9.2	16.5	16.1	16.5	11.6	25.3	26.9	23.7	27.1	26.8	24.3	21.2	21.1	26.6	18.2
Married	50.7	60.1	62.6	61.4	56.9	61.9	40.4	48.5	48.5	45.9	43.7	53.7	48.1	54.0	56.0	48.2	54.5
Separated	0.5	0.6	0.6	0.7	D	D	D	1.0	D	1.6	D	D	D	0.5	D	D	D
Divorced	3.7	8.1	9.2	7.2	11.3	7.0	7.4	4.4	D	D	4.9	3.4	4.1	4.7	D	D	6.3
Marriage-like relationship	6.2	4.0	3.3	4.9	D	3.6	D	8.9	13.0	9.0	9.3	6.6	9.0	5.0	3.1	8.5	5.9
Widowed	0.2	0.9	0.8	0.6	D	D	1.2	0.2	D	D	D	D	D	0.3	D	D	D
Unknown	11.4	12.7	14.2	8.5	12.0	9.2	34.7	11.7	3.0	14.3	13.2	8.8	13.3	14.1	15.3	11.7	13.8
Bachelor's in same field as doctorate	52.9	32.0	40.9	24.8	40.1	36.0	18.9	50.4	39.6	61.5	41.8	52.8	50.7	33.8	35.6	43.0	25.4
With master's degree	72.9	88.9	89.1	90.6	91.2	90.9	74.1	84.6	90.8	83.0	84.2	88.4	82.4	85.0	80.3	89.6	89.5
									Number								
Postgraduation status ^a	40.000													400			
Definite postgraduation study	10,503	206	41	105	8	37	15	357	29	33	33	118	144	128	34	28	66
Definite employment	18,488	3,837	1,456	1,493	149	526	213	2,252	178	269	308	460	1,037	1,705	919	326	460
Seeking employment or study	11,870	1,375	351	660	69	196	99	1,374	105	146	170	275	678	545	207	107	231
Other ^b	1,649	171	58	71	7	23	12	126	7	22	16	28	53	54	21	16	17
D.C.;									Percent								
Definite postgraduation study ^{c,d} Postdoc fellowship	53.3	38.8	31.7	43.8	D	35.1	D	83.5	D	D	75.8	83.1	Q1 2	60.2	64.7	67.9	54.5
'	42.0	36.4	31.7 D	43.8 37.1	D D		40.0	10.9	D D	D D	/5.8 D		81.3	31.3	64.7 D	67.9 D	54.5 D
Postdoc research associateship				****		40.5				_		11.9	12.5				
Traineeship	1.4	D D	D D	5.7	D D	D	D D	2.8 D	D	D	D	D	D	D D	D	D	D D
Intern, clinical residency	2.2	_	_	D		D		_	D	0.0	D	D	D	_	D	D	
Other study	1.0	15.5	26.8	D	D	D	0.0	D	D	0.0	D	D	D	D	0.0	D	D

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	cience and	engineering f	ields						
										Humani	ties				Other f	elds	
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	English language/ literature	Foreign language/ literature	History	Other	Total	Business and management	Communi- cations	Fields nec
Definite employment ^e																	
Academe	51.9	51.5	30.8	62.8	58.4	71.9	58.2	85.4	90.4	88.5	94.8	83.0	82.1	78.5	81.2	87.7	66.7
Government	6.7	3.9	4.5	4.2	D	2.9	D	2.0	D	D	D	5.4	1.4	3.5	D	D	7.6
Industry/business ^f	26.1	3.8	2.7	4.8	D	2.1	D	3.2	D	D	D	D	3.6	10.8	12.5	7.4	9.8
Nonprofit	4.6	4.2	2.6	5.3	6.0	3.4	8.5	4.2	D	D	D	D	7.0	3.9	D	D	10.4
Other ^g	10.6	36.6	59.4	22.8	26.8	19.8	25.8	5.2	4.5	5.6	2.3	5.2	6.0	3.2	2.3	2.8	5.4
Primary activity ^{h,i}																	
R&D	39.2	9.2	2.7	14.5	8.9	10.4	12.3	15.1	13.5	14.6	18.7	15.0	14.5	34.9	45.9	22.2	21.8
Teaching	35.7	39.5	22.1	41.9	65.2	71.6	42.9	74.8	78.8	77.4	77.5	74.2	72.8	45.9	40.4	64.9	43.
Management or administration	14.2	41.4	68.5	28.6	18.5	11.9	38.0	5.1	D	4.2	D	6.4	6.0	11.6	9.0	8.7	18.
Professional services	9.5	9.1	6.0	13.7	7.4	5.4	6.7	3.3	D	3.3	D	3.1	4.3	6.4	4.0	3.8	13.
Other	1.3	0.9	0.7	1.3	0.0	0.6	0.0	1.7	2.9	0.4	0.4	1.2	2.4	1.2	0.6	0.3	2.
Secondary activity ^{h,i}																	
R&D	29.9	23.4	11.8	27.5	26.7	39.7	31.9	53.5	50.6	50.6	59.5	57.5	51.1	41.6	37.9	55.6	39.
Teaching	18.2	19.9	21.2	20.5	17.0	16.1	17.8	15.9	11.2	17.6	18.0	13.1	16.9	35.0	42.7	21.5	28.
Management or administration	11.4	8.6	7.5	10.4	8.9	7.1	7.4	7.0	8.8	7.5	6.0	5.7	7.5	4.7	3.9	2.8	7.
Professional services	7.2	11.9	13.2	11.3	12.6	10.0	10.4	3.3	3.5	2.5	3.2	2.1	4.0	5.7	4.3	5.6	8
Other	1.4	1.7	1.5	2.1	0.7	2.1	0.6	2.4	5.3	1.7	0.7	1.9	2.8	0.9	0.5	1.7	1.
No secondary activity	31.9	34.5	44.8	28.3	34.1	25.1	31.9	17.9	20.6	20.1	12.7	19.6	17.7	12.1	10.7	12.8	14.
Activity(ies) unknown	9.8	10.6	11.0	9.0	9.4	8.9	23.5	9.6	4.5	11.2	7.8	8.9	10.9	11.1	10.9	11.7	11.
Employment location																	
United States ^j	91.1	96.2	98.1	95.6	95.3	93.2	95.3	92.7	D	D	91.9	92.6	91.8	88.3	87.1	92.9	87.
New England	6.2	3.7	3.2	4.0	3.4	3.2	6.1	8.1	5.1	8.9	11.4	8.9	7.0	6.6	8.1	5.2	4
Middle Atlantic	13.6	12.0	D	11.1	D	17.7	D	14.6	16.3	18.6	10.4	14.6	14.6	13.5	12.5	12.0	16
East North Central	12.7	13.9	13.2	15.2	16.1	11.2	15.5	14.7	13.5	14.5	18.8	12.8	14.5	15.2	13.9	20.9	13
West North Central	6.3	9.3	11.1	8.4	8.7	8.0	6.1	6.8	8.4	5.6	6.5	3.7	8.3	6.6	4.8	11.0	7
South Atlantic	17.4	21.7	20.8	22.2	19.5	22.1	25.4	17.4	24.7	13.8	16.2	21.5	15.5	17.0	17.3	12.6	19
East South Central	4.8	7.8	7.8	7.6	15.4	6.8	6.6	5.4	5.1	7.4	4.5	5.9	5.0	5.5	5.2	5.5	5
West South Central	8.8	9.7	D	10.3	6.7	D	D	7.6	7.9	8.2	4.9	8.9	7.7	9.7	10.3	10.4	8
Mountain	5.4	7.3	7.1	7.7	7.4	7.0	7.0	5.1	5.1	4.8	3.9	4.8	5.7	5.0	4.9	6.1	4
Pacific and insular	15.6	10.5	13.6	8.9	D	D	D	12.7	11.2	11.5	15.3	11.3	13.1	8.9	9.7	9.2	7.
Not in United States	8.8	3.8	1.9	4.4	4.7	6.8	4.7	7.3	D	D	8.1	7.4	8.1	11.6	12.9	6.7	12.
Location unknown	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	science and	engineering f	fields						
										Human	ities				Other fi	elds	
				Education	on					English	Foreign				Business		
	All		Education	Education	Teacher	Teaching			American	language/	language/				and	Communi-	Fields
Characteristic	fields	Total	administration	research	education	fields	Other	Total	literature	literature	literature	History	Other	Total	management	cations	nec
									Median year	rs							
Age at doctorate	32.4	41.5	44.8	39.3	44.8	39.1	40.5	34.9	34.1	34.6	35.1	35.0	35.1	35.6	34.4	34.2	38.4
Time to doctorate																	
From bachelor's	9.4	17.0	19.8	15.3	19.0	15.0	15.6	11.3	11.1	11.3	11.0	11.6	11.4	12.1	11.3	11.0	14.7
From graduate school start	7.7	12.7	15.0	11.6	13.2	11.8	11.7	9.3	9.0	9.3	9.1	9.4	9.4	9.3	8.4	8.3	11.7
Male doctorate recipients																	
Number in field	26,271	2,163	897	763	58	289	156	2,256	132	183	221	560	1,160	1,491	870	232	389
% of total doctorate recipients	53.8	32.9	39.9	28.8	21.2	31.8	31.3	47.8	39.1	33.1	35.2	57.8	51.9	51.2	60.5	41.7	42.2
									Percent								
Citizenship																	
U.S. citizen or permanent resident	56.1	83.4	90.5	80.9	82.8	73.4	73.1	80.5	94.7	85.2	57.5	81.4	82.2	54.8	47.5	69.4	62.5
Temporary visa holder	38.0	9.4	2.9	13.5	12.1	18.0	10.3	13.6	3.8	8.7	35.3	13.8	11.2	37.4	45.1	21.1	29.8
Unknown	5.9	7.2	6.6	5.6	5.2	8.7	16.7	5.9	1.5	6.0	7.2	4.8	6.6	7.8	7.5	9.5	7.7
Marital status																	
Never married	28.5	12.7	10.1	15.6	D	13.5	D	23.4	26.5	25.1	29.9	22.5	21.9	19.6	19.9	22.0	17.5
Married	51.7	65.4	67.4	66.4	67.2	69.6	39.7	53.4	55.3	44.8	39.8	58.8	54.5	57.5	58.4	53.9	57.6
Separated	0.4	D	D	D	D	D	D	D	D	D	D	D	0.4	D	D	D	D
Divorced	2.2	4.6	5.9	3.7	D	2.8	D	2.9	D	D	D	D	2.3	2.8	D	D	2.8
Marriage-like relationship	5.5	3.5	D	4.3	D	D	D	8.4	11.4	9.3	10.9	6.4	8.4	4.3	2.8	D	D
Widowed	0.1	D	D	D	D	D	D	D	D	D	D	D	0.0	D	D	D	D
Unknown	11.6	13.1	12.5	9.2	15.5	10.4	40.4	11.3	2.3	15.3	14.0	8.6	12.4	15.2	15.2	13.4	16.2
Bachelor's in same field as doctorate	55.8	28.0	36.9	18.0	34.5	32.2	15.4	52.1	42.4	61.2	38.9	54.1	53.4	31.5	32.9	36.2	25.7
Percent with master's	71.7	88.4	90.3	89.3	91.4	89.3	71.2	84.4	89.4	86.3	81.0	89.1	81.9	83.6	80.9	89.2	86.4
									Number								
Postgraduation status ^a					_		_				_						
Definite postgraduation study	6,009	69	23	23	D	15	D	166	7	13	9	66	71	59	19	17	23
Definite employment	9,783	1,318	601	452	D	178	D	1,102	73	96	118	263	552	877	559	127	191
Seeking employment or study	6,214	395	131	175	14	49 7	26	660	43 1	47	57	161	352	275	128	46	101
Other ^b	837	51	22	15	2	/	5	54	1	4	3	17	29	31	16	8	7
									Percent								
Definite postgraduation study ^{c,d}						_	_		_		_	_			_	_	
Postdoc fellowship	48.4	34.8	21.7	52.2	0.0	D	D	81.9	D	100.0	D	D	81.7	64.4	D	D	60.9
Postdoc research associateship	47.5	39.1	39.1	D	D	40.0	D	12.7	D	D	D	13.6	D	27.1	D	D	D
Traineeship	1.2	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Intern, clinical residency	2.0	D	D D	D D	D	D	D	D D	D D	D	D	D	D	D D	D	D D	D D
Other study	0.8	18.8	D	D	D	D	0.0	D	D	0.0	0.0	D	D	D	0.0	D	ט

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	cience and	engineering f	ields						
										Humani	ties				Other fi	elds	
aracteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	English language/ literature	Foreign language/ literature	History	Other	Total	Business and management	Communi- cations	
Definite employment after doctorate ^e																	
Academe	45.7	49.5	28.8	64.8	D	77.0	D	83.1	89.0	87.5	92.4	80.6	80.8	77.4	80.9	84.3	62.8
Government	7.4	4.8	5.2	5.5	0.0	D	D	2.7	D	D	D	D	1.6	3.3	2.7	0.0	7.3
Industry/business ^f	35.1	3.2	1.7	4.9	D	D	D	2.9	D	D	D	D	3.4	12.7	13.8	11.0	10.
Nonprofit	3.8	3.7	1.8	6.4	D	D	D	5.4	D	D	0.0	D	8.5	4.1	D	D	14.
Other ^g	8.0	38.8	62.6	18.4	D	16.3	D	5.8	D	7.3	D	6.5	5.6	2.5	D	D	4.
Primary activity ^{h,i}																	
R&D	48.4	9.5	2.2	17.4	D	D	D	14.6	11.8	D	D	15.7	13.3	35.9	45.3	22.1	18.
Teaching	29.8	33.3	17.6	36.6	60.9	72.8	34.1	75.4	82.4	80.2	74.5	75.3	73.9	43.9	40.6	61.9	41.
Management or administration	12.4	49.4	75.7	32.0	D	D	48.8	4.8	D	D	D	5.1	5.4	12.8	D	D	21.
Professional services	8.2	7.3	4.3	13.6	D	D	D	3.5	D	D	D	D	5.2	6.3	D	D	15.
Other	1.2	0.3	0.2	0.5	0.0	0.6	0.0	1.7	D	1.2	0.9	D	2.2	1.0	0.4	0.0	3.
Secondary activity ^{h,i}																	
R&D	27.2	22.3	12.0	27.1	D	42.0	D	53.8	58.8	55.6	56.4	57.0	50.8	40.7	38.0	56.6	38.
Teaching	17.3	21.5	22.5	22.8	26.1	14.8	19.5	15.4	10.3	14.8	20.9	13.2	15.9	36.2	42.6	19.5	28
Management or administration	13.2	9.9	8.8	12.6	D	6.2	D	7.6	D	D	D	D	8.2	4.5	D	D	
Professional services	7.1	11.2	12.4	9.7	D	9.9	D	3.0	D	D	D	D	3.6	6.5	5.5	5.3	10
Other	1.1	1.5	1.1	1.9	0.0	2.5	0.0	2.4	1.5	1.2	0.9	1.7	3.4	0.5	D	D	
No secondary activity	34.1	33.7	43.3	25.9	30.4	24.7	24.4	17.8	19.1	21.0	10.0	19.1	18.1	11.6	10.1	13.3	14.
Activity(ies) unknown	9.7	11.0	11.1	8.6	17.9	9.0	30.5	9.6	6.8	15.6	6.8	10.6	9.1	11.2	11.4	11.0	10.
Employment location																	
United States ^j	89.5	94.6	97.3	92.7	92.9	92.1	89.8	92.7	D	D	92.4	91.6	91.8	86.5	86.6	90.6	83
New England	6.2	3.6	3.5	3.5	D	3.4	D	7.1	D	13.5	D	8.0	5.4	8.1	9.1	7.1	5
Middle Atlantic	13.3	12.4	D	11.5	D	15.7	D	14.4	15.1	16.7	12.7	11.0	15.9	12.9	12.7	15.0	12
East North Central	12.0	14.1	13.0	16.6	21.4	10.1	15.3	13.9	16.4	13.5	15.3	13.3	13.6	14.0	13.2	16.5	14
West North Central	5.4	9.6	11.8	6.9	D	12.4	D	6.6	8.2	5.2	5.9	4.2	8.0	6.0	4.7	11.8	6
South Atlantic	15.8	18.1	17.3	18.8	D	16.9	D	18.3	23.3	10.4	19.5	21.3	17.4	16.5	16.1	13.4	19
East South Central	4.3	7.2	8.2	6.4	D	7.3	D	5.9	D	D	D	5.3	6.2	4.9	5.2	D	
West South Central	9.3	9.7	D	10.0	D	D	D	8.3	6.8	11.5	5.1	11.0	7.4	10.9	10.7	15.7	8
Mountain	5.2	7.8	7.2	9.3	D	6.7	D	5.4	D	D	4.2	6.1	5.6	3.8	4.7	D	
Pacific and insular	17.7	12.0	15.3	9.7	D	D	D	12.5	11.0	13.5	17.8	11.4	12.0	9.2	10.2	7.9	7
Not in United States	10.3	5.4	2.7	7.3	D	7.9	D	7.3	D	D	7.6	8.4	8.2	13.3	13.4	8.7	16
Location unknown	0.1	0.0	0.0	0.0	D	0.0	D	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.8	0.

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	science and	engineering f	ields						
										Humani	ities				Other fi	ields	
				Education	-					English	Foreign				Business		
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	Fields nec
									Median yea	rs							
Age at doctorate	32.0	40.7	42.6	39.0	44.1	37.6	41.8	35.1	33.7	35.0	34.5	35.4	35.3	35.8	35.0	35.5	38.1
Time to doctorate																	
From bachelor's	9.0	16.3	18.0	15.0	17.8	13.6	15.3	11.3	11.0	11.6	10.8	11.8	11.3	12.0	11.5	11.3	14.1
From graduate school start	7.4	12.3	13.9	11.3	13.9	11.3	11.5	9.3	9.0	9.7	8.7	9.7	9.3	9.3	8.8	8.7	11.1
Female doctorate recipients																	
Number in field	22,496	4,414	1,351	1,885	216	620	342	2,465	206	370	406	409	1,074	1,417	565	323	529
% of total doctorate recipients	46.1	67.1	60.1	71.2	78.8	68.2	68.7	52.2	60.9	66.9	64.8	42.2	48.1	48.6	39.3	58.1	57.4
									Percent								
Citizenship																	
U.S. citizen or permanent resident	71.3	85.8	89.6	84.9	86.6	81.6	82.2	77.8	92.7	80.0	64.3	83.9	77.1	65.4	51.7	74.6	74.5
Temporary visa holder	23.4	8.2	2.6	10.6	9.3	13.4	7.0	15.9	6.3	12.4	28.1	10.8	16.4	28.7	41.2	20.4	20.2
Unknown	5.3	6.0	7.8	4.5	4.2	5.0	10.8	6.2	1.0	7.6	7.6	5.4	6.5	5.9	7.1	5.0	5.3
Marital status																	
Never married	25.9	14.1	8.5	16.9	D	17.9	D	27.1	27.2	23.0	25.6	32.8	27.0	23.1	23.0	30.0	18.9
Married	49.6	57.6	59.4	59.4	54.2	58.4	40.6	44.0	44.2	46.5	45.8	46.7	41.3	50.7	52.6	44.3	52.6
Separated	0.7	D	D	D	0.0	D	0.0	D	D	D	1.5	D	D	D	D	0.0	0.9
Divorced	5.4	9.8	11.4	8.7	D	9.0	D	5.8	D	D	D	D	6.0	6.8	4.6	7.1	8.9
Marriage-like relationship	6.9	4.3	D	5.1	D	D	5.3	9.2	14.1	8.9	8.4	6.8	9.7	5.8	3.7	D	D
Widowed	0.4	D	D	D	D	D	1.8	D	0.0	D	D	D	D	D	D	D	D
Unknown	11.0	12.5	15.3	8.2	11.1	8.7	32.2	12.1	3.4	13.8	12.8	9.0	14.2	12.7	15.2	10.2	11.5
Bachelor's in same field as doctorate	49.6	34.1	43.5	27.6	41.7	37.7	20.5	48.9	37.9	61.6	43.3	51.1	47.9	36.3	40.0	48.0	25.3
Percent with master's	74.5	89.2	88.4	91.2	91.2	91.6	75.4	84.7	91.7	81.4	86.0	87.5	83.1	86.7	79.6	89.8	92.2
									Number								
Postgraduation status ^a																	
Definite postgraduation study	4,494	137	18	82	D	22	D	191	22	20	24	52	73	69	15	11	43
Definite employment	8,705	2,519	855	1,041	D	348	D	1,150	105	173	190	197	485	828	360	199	269
Seeking employment or study	5,656	980	220	485	55	147	73	714	62	99	113	114	326	270	79	61	130
Other ^b	812	120	36	56	5	16	7	72	6	18	13	11	24	23	5	8	10
									Percent								
Definite postgraduation study ^{c,d}	50.0	40.0	44.4	41.5	D	D	D	84.8	D	D	D	D	80.8	56.5	D	D	E1 0
Postdoc fellowship Postdoc research associateship	59.9 34.6	40.9 35.0	44.4 D	41.5 D	D	40.9	D	9.4	0.0	D	D	9.6	00.0 D	34.8	D	D	51.2 34.9
Traineeship	1.7	33.0 D	D	7.3	D	40.9 D	D	9.4 D	0.0 D	0.0	D	0.0	D	34.0 D	0.0	0.0	34.9 D
Intern, clinical residency	2.4	D	0.0	7.3 D	0.0	0.0	D	D	D	0.0	0.0	0.0	D	D	0.0	0.0	D
Other study	1.3	13.9	0.0 D	11.0	0.0 D	0.0 D	0.0	D	0.0	0.0	0.0 D	0.0 D	D	D	0.0	0.0	D
Other stady	1.5	10.0	D	11.0	D	D	0.0	U	0.0	0.0	U	D	U	ט	0.0	0.0	D

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	cience and e	engineering fi	ields						
										Humani	ties				Other fi	elds	
naracteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	English language/ literature	Foreign language/ literature	History	Other	Total	Business and management	Communi- cations	Field ne
Definite employment after doctorate ^e Academe	59.0	52.5	32.3	62.0	D	69.3	D	87.7	91.4	89.0	96.3	86.3	83.5	79.7	81.7	89.9	69
	6.0	3.5	32.3 4.0	3.7	D	09.3 D	D	1.3	0.0	69.0 D	96.3	00.3 D	1.0	3.7	01. <i>1</i> D	69.9 D	7
Government	16.0	4.0	3.4	4.8	D	D	D	3.6	0.0 D	D	0.0 D	3.6	3.7	8.8	10.6	5.0	(
Industry/business ^T	5.4	4.0	3.4	4.8	D	D	D	3.0	D	0.0	0.0	3.0 D	5. <i>1</i>	3.7	10.6 D	5.0 D	-
Nonprofit	13.6	35.5	57.2	24.8	D	21.6	D	4.5	D	4.6	0.0 D	3.6	6.4	4.0	D	D	į
Other ^g	13.0	33.3	57.2	24.0	D	21.0	D	4.5	D	4.0	D	3.0	0.4	4.0	U	D	,
Primary activity ^{h,i}																	
R&D	28.8	8.9	3.0	13.2	D	D	D	15.7	14.7	D	D	14.1	15.9	33.8	46.9	22.3	2
Teaching	42.4	42.7	25.2	44.2	66.1	71.0	45.9	74.2	76.5	75.9	79.3	72.8	71.6	48.0	40.1	66.9	4
Management or administration	16.2	37.2	63.5	27.1	D	D	34.4	5.4	D	D	D	8.2	6.6	10.3	D	D	1
Professional services	11.1	10.0	7.2	13.8	D	D	D	3.1	D	D	D	D	3.3	6.5	D	D	1
Other	1.5	1.2	1.0	1.7	0.0	0.6	0.0	1.6	D	0.0	0.0	D	2.6	1.4	0.9	0.6	
Secondary activity ^{h,i}																	
R&D	32.9	24.0	11.7	27.6	D	38.5	D	53.2	45.1	48.1	61.5	58.2	51.4	42.6	37.7	54.9	4
Teaching	19.2	19.0	20.3	19.5	15.2	16.7	17.2	16.3	11.8	19.0	16.1	13.0	18.0	33.6	42.9	22.9	2
Management or administration	9.4	8.0	6.6	9.4	D	7.6	D	6.4	D	D	D	D	6.6	4.9	D	D	
Professional services	7.4	12.2	13.8	12.1	D	10.1	D	3.6	D	D	D	D	4.5	4.7	2.5	5.7	
Other	1.7	1.9	1.8	2.1	0.9	1.9	0.8	2.4	7.8	1.9	0.6	2.2	2.1	1.4	D	D	
No secondary activity	29.5	34.9	45.8	29.3	34.8	25.2	34.4	18.1	21.6	19.6	14.4	20.1	17.3	12.8	11.7	12.6	1
Activity(ies) unknown	9.9	10.4	10.9	9.2	7.4	8.9	20.8	9.6	2.9	8.7	8.4	6.6	13.0	11.0	10.0	12.1	1
Employment location																	
United States ^j	92.9	97.0	98.6	96.8	95.9	93.7	97.4	92.6	D	D	91.6	93.9	91.8	90.2	87.8	94.5	ç
New England	6.1	3.7	2.9	4.2	D	3.2	D	9.0	D	6.4	D	10.2	8.9	5.0	6.4	4.0	
Middle Atlantic	13.9	11.8	D	11.0	D	18.7	D	14.8	17.1	19.7	8.9	19.3	13.0	14.1	12.2	10.1	
East North Central	13.5	13.9	13.3	14.6	14.9	11.8	15.6	15.4	11.4	15.0	21.1	12.2	15.5	16.5	15.0	23.6	1
West North Central	7.3	9.1	10.6	9.1	D	5.7	D	7.0	8.6	5.8	6.8	3.0	8.7	7.2	5.0	10.6	
South Atlantic	19.2	23.6	23.3	23.6	D	24.7	D	16.4	25.7	15.6	14.2	21.8	13.4	17.5	19.2	12.1	1
East South Central	5.3	8.1	7.5	8.2	D	6.6	D	5.0	D	D	D	6.6	3.7	6.0	5.3	D	
West South Central	8.4	9.8	D	10.5	D	D	D	7.0	8.6	6.4	4.7	6.1	8.0	8.5	9.7	7.0	
Mountain	5.6	7.1	7.1	7.0	D	7.2	D	4.9	D	D	3.7	3.0	5.8	6.3	5.3	D	
Pacific and insular	13.2	9.8	12.4	8.5	D	D	D	12.9	11.4	10.4	13.7	11.2	14.4	8.6	8.9	10.1	
Not in United States	7.0	3.0	1.3	3.2	D	6.3	D	7.3	D	D	8.4	6.1	8.0	9.7	12.2	5.5	
Location unknown	0.1	0.0	0.1	0.0	D	0.0	D	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	

TABLE 40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2008

								Non-s	science and	engineering f	ields						
										Human	ities				Other fi	elds	
				Educatio	n					English	Foreign				Business		
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	
									Median yea	rs							
Age at doctorate	32.8	42.2	46.1	39.5	44.9	39.7	39.7	34.8	34.3	34.5	35.3	34.2	34.9	35.4	33.4	33.4	38.6
Time to doctorate																	
From baccalaureate	10.0	17.3	21.0	15.4	19.4	15.4	15.8	11.3	11.5	11.2	11.3	11.2	11.6	12.2	10.7	10.5	15.0
From graduate school start	8.0	12.8	15.7	11.7	13.1	12.0	11.7	9.3	9.2	9.1	9.2	9.3	9.7	9.2	8.1	7.9	11.9

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

nec = not elsewhere classified; R&D = research and development.

^a Includes only respondents who responded to post graduation status.

^b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for another full-time degree program.

^c Does not include respondents who indicated plans for another full-time degree program.

d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

^e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

⁹ "Other" is mainly composed of elementary and secondary schools.

^h Includes only respondents with definite employment plans.

¹ Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

¹ Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE 41. Statistical profile of doctorate recipients, by race/ethnicity and citizenship: 2008

		Total ^a		Am	erican Ind	lian ^b		Asian ^c			Black			Hispanic	:		White			Multi-rac	е	Other/u	unknowr	ı race ^d
Characteristics	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Nor U.S citize
All doctorate																								
recipients (number)	48,802	30,791	15,246	130	123	7	12,618	2,543	10,063	2,483	2,030	444	2,703	1,765	932	26,516	23,208	3,268	564	520	43	3,788	602	48
												Perce	ent											
Primary source of support ^e Teaching assistantships Research or other	17.7	15.9	21.2	13.0	D	D	19.0	13.7	20.3	11.2	8.2	24.6	16.5	13.5	22.1	17.8	17.0	23.6	14.7	D	D	17.0	17.6	15.
assistantships/traineeships	30.8	21.4	50.0	12.2	D	D	51.5	32.6	56.3	15.8	10.2	40.8	21.3	14.2	34.2	23.7	21.7	37.6	23.8	D	D	27.8	19.5	38.
Fellowships/grants	26.9	30.0	20.4	38.3	D	D	20.4	34.5	16.8	32.4	34.4	23.1	34.9	39.7	26.4	28.3	28.3	28.5	33.0	D	D	32.3	35.5	29.
Own resources	19.8	27.3	4.5	30.4	32.1	D	6.5	15.1	4.3	35.0	41.0	8.1	20.1	28.7	4.6	24.7	D	D	24.4	D	D	17.5	D	[
Foreign government	1.1	0.1	3.3	D	D	D	1.5	D	D	0.5	D	D	4.6	0.5	11.8	0.6	0.1	4.8	0.6	D	D	3.0	D	10.
Employer	3.6	5.2	0.5	6.1	D	D	1.1	D	D	5.0	D	D	2.6	3.4	1.0	4.9	D	D	3.4	D	D	2.2	D	I
Other	0.1	0.1	*	0.0	0.0	0.0	0.1	D	D	0.1	D	D	0.0	0.0	0.0	*	D	D	0.2	D	D	0.1	0.2	0.
												Numb	er											
Postgraduation status ^f																								
Definite postgraduation study	10,503	6,536	3,947	23	D	D	3,163	573	2,590	404	306	98	636	380	256	5,985	5,041	943	125	118	7	167	D	[
Definite employment	18,488	13,326	5,126	60	D	D	4,194	858	3,333	973	845	127	992	634	358	11,774	10,557	1,210	220	207	13	275	D	[
Seeking employment/																								
study	11,870	7,425	4,423	25	D	D	3,919	753	3,166	739	592	147	706	488	218	6,125	5,302	823	152	140	12	204	D	[
Other ^g	1,649	1,257	390	11	D	D	437	169	268	96	80	16	96	68	27	956	885	71	20	20	0	39	D	[
												Perce	ent											
Postgraduation study																								
plans ^h	36.2	32.9	43.5	27.7	D	D	43.0	40.0	43.7	29.3	26.6	43.6	39.1	37.5	41.7	33.7	32.3	43.8	36.2	36.3	35.0	37.8	D	
Postgraduation employment plans																								
Academe	51.9	54.9	44.1	48.3	D	D	36.6	42.5	35.1	50.9	51.0	49.6	60.3	56.5	67.0	56.8	56.3	60.8	53.2	D	D	51.3	D	[
Government	6.7	7.7	4.2	8.3	D	D	4.6	7.8	3.8	9.9	9.8	10.2	6.0	6.5	5.3	7.1	7.5	4.0	16.8	D	D	7.3	D	[
Industry/business ⁱ	26.1	18.3	46.5	11.7	D	D	52.5	39.2	56.0	12.5	10.4	26.8	18.2	15.9	22.3	18.7	17.3	30.6	19.1	19.8	7.7	26.9	D	[
Nonprofit	4.6	5.5	2.3	8.3	D	D	2.8	5.0	2.3	7.0	6.7	8.7	4.7	6.0	2.5	5.0	5.4	1.6	3.2	3.4	D	4.7	D	[
Other ⁱ	10.6	13.6	3.0	23.3	D	D	3.4	5.5	2.9	19.7	22.0	4.7	10.7	15.1	2.8	12.5	13.5	3.1	7.7	8.2	0.0	9.8	D	[
Employment location ^k	04.4	07.7	74.0	00.7	-	_	00.0	05.0	70.7	00.5	00.4	FC 7	00.4	07.0	545	04.7	07.0	07.4	04.5	07.4	50.0	00.5	_	,
United States	91.1	97.7	74.0	96.7	D	D	82.9	95.3	79.7	93.5	99.1	56.7	82.1	97.6	54.5	94.7	97.9	67.4	94.5	97.1	53.8	82.5	D	[
Not United States	8.8	2.2 0.1	25.8	3.3	D D	D D	17.0	4.7	20.2	6.3 0.2	0.7	43.3	17.9	2.4	45.5 0.0	5.2	2.1	32.5	5.5	2.9	46.2	16.0	D D	[
Unknown	0.1	0.1	0.2	0.0	D	D	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	1.5	ט	L

TABLE 41. Statistical profile of doctorate recipients, by race/ethnicity and citizenship: 2008

		Total ^a		Am	erican In	dian ^b		Asian ^c			Black			Hispanic			White			Multi-rac	е	Other/	unknow	n race ^d
			Non-			Non-			Non-			Non-			Non-			Non-			Non-			Non-
		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.		U.S.	U.S.
Characteristics	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen
											Media	n numbe	er of yea	rs										
Age at doctorate	32.4	33.0	31.7	36.1	36.3	33.4	31.6	32.1	31.5	36.4	36.6	35.7	33.6	33.5	33.7	32.5	32.7	31.3	32.2	32.2	32.2	33.3	33.8	32.2
Time to degree																								
From baccalaureate	9.4	10.0	8.9	11.9	12.0	10.7	9.0	9.5	8.9	12.2	12.6	10.9	10.0	10.0	9.5	9.4	9.7	8.2	9.3	9.4	9.1	9.8	10.0	9.4
From graduate school start	7.7	7.7	7.5	9.6	9.6	10.2	7.7	7.7	7.7	9.2	9.5	7.7	7.8	8.0	7.7	7.7	7.7	7.2	7.7	7.6	7.9	7.3	7.7	7.3

^{* =} value <0.05. D = suppressed to avoid disclosure of confidential information.

NOTES: "U.S citizen" refers to U.S. citizens and permanent residents; "non-U.S. citizen" refers to non-U.S. citizen temporary visa holders. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a Totals include 2,765 individuals who did not report their citizenship at time of doctorate.

^b Includes Alaska Natives.

^c Does not include Native Hawaiians/Other Pacific Islanders.

d Includes doctorate recipients who did not indicate race/ethnicity, non-Hispanic doctorate recipients who did not indicate race, and non-Hispanic Native Hawaiian/Other Pacific Islanders.

^e Percentages are based on the number indicating a primary source of financial support during graduate school.

f Includes only respondents who responded to postgraduation status.

⁹ Includes respondents who indicated that they did not plan to work or study, respondents who did not indicate postgraduation plans, and respondents indicating other full-time degree program.

^h Does not include respondents who indicated plans for other full-time degree program.

¹ Includes doctorate recipients who indicated self-employment.

^j "Other" is mainly composed of elementary and secondary schools.

^k Includes only respondents with definite employment plans.

TABLE 42. Doctorate recipients' financial resources in support of doctoral programs, by broad field of study and sex: 2008

					Phys	ical										
	To	otal	Life sci	ences ^a	scien	ces ^b	Social so	iences ^c	Engine	ering	Educ	ation	Huma	nities	Other	fields
Financial resource	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
								Num	nber							
Unduplicated total ^d	23,521	20,285	4,696	5,397	5,313	2,068	2,744	3,894	5,578	1,549	1,883	3,899	2,018	2,225	1,289	1,253
								Pero	cent							
Fellowship, scholarship	53.8	56.9	59.8	61.9	51.6	58.0	64.8	63.7	44.5	54.7	28.0	32.1	78.0	77.6	56.7	55.4
Grant	26.3	30.1	43.8	42.4	22.8	25.8	29.0	34.9	16.6	21.8	12.3	13.5	33.9	35.3	21.0	21.2
Teaching assistantship	60.3	56.4	44.1	43.2	79.4	82.4	74.2	72.3	51.4	56.4	22.3	25.1	83.9	85.3	67.6	66.6
Research assistantship	63.9	52.9	59.5	57.0	81.5	80.8	56.9	58.9	84.4	84.4	20.0	24.3	27.8	33.6	53.7	55.0
Other assistantship	4.5	6.7	2.9	2.8	2.7	3.0	8.3	13.0	3.0	3.0	7.2	8.0	8.8	8.6	5.8	6.1
Traineeship	2.8	4.2	8.9	10.0	1.0	2.4	3.2	4.7	1.5	2.4	0.3	0.5	0.5	0.5	0.6	1.0
Internship, clinical residency	5.6	6.5	1.5	1.6	7.0	6.4	11.7	21.2	8.4	8.7	2.1	2.5	1.2	1.5	1.6	1.2
Loans (from any source)	24.2	32.2	21.4	22.0	14.1	14.5	41.4	48.7	11.3	9.9	42.2	39.9	46.9	44.7	32.9	35.4
Personal savings	36.4	42.0	30.0	32.6	24.2	23.6	49.5	48.4	28.8	24.5	59.9	58.9	52.8	49.4	55.5	49.5
Other personal earnings during graduate school	23.6	33.7	15.7	19.4	12.2	11.2	36.4	43.0	11.7	8.7	55.7	55.5	52.0	49.3	33.1	38.8
Spouse's, partner's, or family's earnings or savings	25.5	37.1	23.3	29.4	16.7	20.7	36.9	48.9	17.9	20.8	32.9	42.7	45.7	47.9	36.5	43.5
Employer reimbursement/assistance	8.9	10.4	6.6	8.9	5.4	3.8	6.6	6.1	7.8	4.1	31.2	26.2	7.4	4.7	10.9	10.9
Foreign (non-U.S.) support	5.1	3.6	3.8	3.2	4.1	2.6	6.9	4.2	6.0	4.6	3.5	2.2	5.3	5.8	8.5	4.9
Other	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.3	0.2

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: In this table a respondent counts once in each source category from which he or she received support. Because students indicate multiple sources of support, percentages sum to more than 100%. (Data on "primary" source of support for doctorate recipients are presented in body of this report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. The table excludes 35 individuals for whom sex was not reported.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

d The 4,994 doctorate recipients who did not report sources of support are omitted from this total. Percentages are based only on known responses.

TABLE 43. Distribution of doctorate recipients' financial resources in support of doctoral programs, by sex and broad field of study: 2008 (Percent)

	All fields	Life	Physical	Social				
Financial resource	(number)	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
Male doctorate recipients								
Unduplicated count ^d	23,521	20.0	22.6	11.7	23.7	8.0	8.6	5.5
Fellowship, scholarship	12,643	22.2	21.7	14.1	19.6	4.2	12.5	5.8
Grant	6,177	33.3	19.6	12.9	15.0	3.8	11.1	4.4
Teaching assistantship	14,180	14.6	29.8	14.4	20.2	3.0	11.9	6.1
Research assistantship	15,022	18.6	28.8	10.4	31.3	2.5	3.7	4.6
Other assistantship	1,062	12.7	13.7	21.4	15.7	12.8	16.7	7.1
Traineeship	667	62.8	7.9	13.3	12.3	0.7	1.6	1.2
Internship, clinical residency	1,318	5.5	28.1	24.4	35.5	3.0	1.9	1.6
Loans (from any source)	5,689	17.6	13.2	20.0	11.1	14.0	16.6	7.5
Personal savings	8,568	16.5	15.0	15.8	18.8	13.2	12.4	8.3
Other personal earnings during graduate school	5,559	13.2	11.6	18.0	11.7	18.9	18.9	7.7
Spouse's, partner's, or family's earnings or savings ^e	6,003	18.2	14.8	16.9	16.6	10.3	15.4	7.8
Employer reimbursement/assistance	2,091	14.9	13.7	8.7	20.8	28.1	7.2	6.7
Foreign (non-U.S.) support	1,204	14.9	18.1	15.6	28.0	5.5	8.9	9.1
Other	39	23.1	12.8	5.1	17.9	7.7	23.1	10.3
Female doctorate recipients								
Unduplicated count ^e	20,285	26.6	10.2	19.2	7.6	19.2	11.0	6.2
Fellowship, scholarship	11,538	29.0	10.4	21.5	7.3	10.8	15.0	6.0
Grant	6,097	37.5	8.7	22.3	5.5	8.6	12.9	4.4
Teaching assistantship	11,436	20.4	14.9	24.6	7.6	8.6	16.6	7.3
Research assistantship	10,731	28.7	15.6	21.4	12.2	8.8	7.0	6.4
Other assistantship	1,350	11.3	4.7	37.4	3.5	23.2	14.2	5.7
Traineeship	855	63.3	5.8	21.5	4.3	2.3	1.3	1.4
Internship, clinical residency	1,322	6.4	10.1	62.4	10.2	7.3	2.6	1.1
Loans (from any source)	6,532	18.2	4.6	29.0	2.4	23.8	15.2	6.8
Personal savings	8,528	20.6	5.7	22.1	4.4	26.9	12.9	7.3
Other personal earnings during graduate school	6,836	15.3	3.4	24.5	2.0	31.7	16.0	7.1
Spouse's, partner's, or family's earnings or savings	7,516	21.1	5.7	25.3	4.3	22.2	14.2	7.3
Employer reimbursement/assistance	2,117	22.6	3.7	11.1	3.0	48.2	4.9	6.4
Foreign (non-U.S.) support	738	23.6	7.2	22.1	9.6	11.7	17.5	8.4
Other	34	26.5	2.9	14.7	5.9	32.4	11.8	5.9

a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: In this table a recipient counts once in each source category from which he or she received support. Because students indicate multiple sources of support, the sum of the individual sources of support will be greater than the unduplicated total. (Data on the "primary" source of support for doctorate recipients are presented in the body of this report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d The 2,750 male doctorate recipients who did not report sources of support are omitted from this number.

^e The 2,211 female doctorate recipients who did not report sources of support are omitted from this number.

TABLE 44. State of doctoral institution of doctorate recipients, by broad field of study and sex: 2008

	Tot	tal ^a	Li scier		Phy: scier		Social s	ciencesd	Engin	eering	Educ	ation	Huma	anities	Other	fields
State	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Femal
United States ^e	26,271	22,496	5,220	5,854	5,856	2,271	3,121	4,387	6,164	1,688	2,163	4,414	2,256	2,465	1,491	1,41
Alabama	321	302	88	81	59	33	26	39	74	16	44	107	5	8	25	1
Alaska	19	10	D	D	D	D	D	D	5	0	D	D	D	D	0	
Arizona	469	424	66	78	102	36	62	90	114	28	53	98	40	59	32	3
Arkansas	102	89	39	36	15	6	D	D	14	5	D	D	8	6	5	,
California Colorado	3,268 416	2,656 364	588 79	668 111	805 130	303 53	489 40	648 60	815 92	267 17	179 31	336 76	291 21	339 28	101 23	95 19
Connecticut Delaware	360 108	302 119	95 11	100 14	79 23	33 17	61 7	66 15	56 D	16 D	5 28	19 58	48 D	58 D	16 0	10
District of Columbia Florida	261 1,066	289 951	29 162	55 182	31 236	17 102	58 119	91 190	37 290	12 73	29 99	39 241	47 62	42 66	30 98	30 97
Georgia	722	633	128	136	134	62	59	100	253	72	61	155	52	65	35	43
Hawaii	99	94	18	23	26	7	28	31	D	D	6	13	D	D	D	[
Idaho Illinois	69 1,334	71 1,028	25 205	19 216	D 304	D 89	D 159	D 226	D 323	D 80	17 100	37 195	0 156	0 133	0 87	88
Indiana Iowa	756 374	527 319	120 103	111 100	179 81	58 32	66 27	93 43	193 84	49 24	73 25	99 74	76 35	74 19	49 19	43
Kansas Kentucky	207 246	236 202	38 60	57 65	41 38	24 17	30 27	46 38	35 49	9	36 22	63 39	18 25	25 20	9 25	12
Louisiana	291	249	88	76	49	30	30	42	52	15	14	37	29	27	29	22
Maine	24	27	9	12	7	6	D	D	D	D	D	D	D	D	0	(
Maryland Massachusetts	677 1,447	625 1,143	185 286	245 350	166 383	57 115	70 178	100 268	159 323	51 100	31 46	88 114	46 154	53 148	20 77	3° 48
Michigan Minnesota	873 462	725 498	143 85	177 112	189 79	85 30	103 62	136 85	255 104	76 25	75 58	132 155	57 25	68 45	51 49	5° 46
Mississippi Missouri	194 466	207 414	43 113	32 115	22 87	11 40	18 49	31 58	D 97	D 28	49 55	97 107	13 40	11 38	D 25	[28
Montana Nebraska	53 155	45 141	24 41	21 40	D 22	D 17	D 16	D 25	D D	D D	9	12 40	0 15	0	0 D	[
Nevada New Hampshire	72 81	79 59	10	19 27	12	6	9	20	D D	D D	6	27 5	D D	D D	5 D	(
New Jersey	565	458	87	112	148	60	65	70	122	47	27	55	83	83	33	3
New Mexico	145	119	28	24	34	14	14	14	36	8	20	45	8	8	5	(
New York North Carolina	2,095 716	1,888 731	423 194	449 264	503 143	187 82	316 78	503 102	354 144	84 47	127 56	257 134	256 63	270 75	116 38	138 27
North Dakota Ohio	76 1,061	76 851	29 228	21 222	D 226	D 72	7 105	16 142	6 309	0 71	14 87	26 190	D 66	D 90	6 40	64
Oklahoma Oregon	217 224	143 189	53 73	40 62	37 57	5 17	24 19	24 33	40 29	9 7	29 22	41 45	17 14	12 10	17 10	12 15
Pennsylvania	1,311	1,150	203	284	292	128	137	175	354	114	132	220	99	148	94	8
Puerto Rico	91	1,130	10	8	14	9	34	61	D	D	20	52	D	D	94 D]
Rhode Island South Carolina	143 230	135 183	15 54	22 60	45 55	23 23	19 20	33 30	27 68	10 15	D 21	D 33	D 6	D 12	D 6	[
South Dakota Tennessee	35 399	48	7	10 119	D 54	D 23	8 41	8 56	D 99	D 25	D 42	D 115	D 42	D 30	0 17	2

TABLE 44. State of doctoral institution of doctorate recipients, by broad field of study and sex: 2008

	To	tal ^a		ife nces ^b	,	sical nces ^c	Social s	ciences ^d	Engin	eering	Educ	cation	Huma	anities	Other	fields
State	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Texas	1,903	1,475	374	356	415	143	175	264	493	112	163	371	133	124	150	105
Utah	267	167	58	56	70	21	31	32	58	12	26	24	11	7	13	15
Vermont	33	47	12	14	D	D	D	D	D	D	D	18	D	D	D	D
Virginia	667	549	109	138	140	44	80	78	193	50	55	151	50	54	40	34
Washington	437	378	103	128	95	44	66	73	83	29	39	48	23	40	28	16
West Virginia	103	81	21	24	18	8	14	19	D	D	13	22	D	D	D	D
Wisconsin	517	444	112	154	119	53	55	67	121	36	37	41	51	65	22	28
Wyoming	44	22	D	D	D	D	5	6	11	0	10	6	0	0	0	0

D = suppressed to avoid disclosure of confidential information.

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a Totals exclude doctorate recipients who did not report sex (n=35).

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer and information sciences.

^d Includes psychology.

 $^{^{\}rm e}$ Includes the 50 states, District of Columbia, and Puerto Rico.

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

TABLE TOO. INDUITIONS GRANLING TO								, ,		ience		,															
	-		resources	s ex				ciences	ocean sciences						al relations							E	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
All U.S. Institutions	48,802	11,088	1,201	7,793	2,094	8,129	2,247	1,786	862	1,400	1,834	7,509	481	1,091	959	3,361	601	1,016	7,862	265	964	865	2,299	281	665	1,139	1,384
Alabama	623	169	30	113	26	92	21	23	11	19	18	65	2	6	4	43	5	5	90	7	9	9	25	8	12	14	6
AL A&M U.	25	8	7	1	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AL State U.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auburn U.	195	50	20	24	6	20	3	8	0	7	2	27	0	2	2	20	0	3	39	4	6	4	10	7	5	3	0
Regions U.	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Tuskegee U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
U. AL Birmingham	151	93	1	78	14	14	2	6	0	5	1	13	0	0	0	8	5	0	13	0	0	5	5	0	3	0	0
U. AL in Huntsville	37	1	0	1	0	15	0	5	3	3	4	0	0	0	0	0	0	0	21	2	0	0	8	1	1	4	5
U. AL, The	183	12	2	6	4	34	16	4	4	4	6	23	2	4	2	13	0	2	16	1	3	0	2	0	2	7	1
U. South AL	18	5	0	3	2	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska	29	11	6	5	0	8	0	0	6	0	2	2	0	0	0	1	0	1	5	0	0	0	2	0	0	2	1
U. AK	29	11	6	5	0	8	0	0	6	0	2	2	0	0	0	1	0	1	5	0	0	0	2	0	0	2	1
Arizona	893	144	23	84	37	138	28	30	16	17	47	152	20	5	33	56	15	23	142	0	5	14	61	12	27	4	19
AZ State U.	412	25	0	21	4	55	9	24	3	9	10	74	9	2	10	32	8	13	95	0	1	11	44	11	20	2	6
Northern AZ U.	40	2	1	1	0	0	0	0	0	0	0	9	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0
U. AZ	441	117	22	62	33	83	19	6	13	8	37	69	11	3	16	22	7	10	47	0	4	3	17	1	7	2	13
Arkansas	192	75	20	47	8	21	7	2	4	4	4	11	1	1	1	2	0	6	20	1	4	2	7	2	0	0	4
AR State U.	9	3	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. AR	145	47	18	22	7	18	7	2	3	2	4	11	1	1	1	2	0	6	16	0	4	2	4	2	0	0	4
U. AR Little Rock	16	3	0	3	0	2	0	0	0	2	0	0	0	0	0	0	0	0	4	1	0	0	3	0	0	0	0
U. AR for Medical Sciences	22	22	0	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	5,925	1,256	83	1,007	166	1,108	299	254	133	176	246	1,137	73	191	153	482	97	141	1,082	29	103	109	411	5	96	167	162
Alliant International U./Alameda	30	0	0	0	0	0	0	0	0	0	0	28	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./Alhambra	26	0	0	0	0	0	0	0	0	0	0	26	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./Fresno	11	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./ San Diego	42	0	0	0	0	0	0	0	0	0	0	42	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			al resources	seol				sciences	ocean sciences						nal relations			_				En	ıgineeriı	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Biola U.	17	0	0	0	0	0	0	0	0	0	0	10	0	0	0	7	0	3	0	0	0	0	0	0	0	0	0
CA Institute Integral Studies	30	0	0	0	0	0	0	0	0	0	0	15	4	0	0	8	0	3	0	0	0	0	0	0	0	0	0
CA Institute of Technology	185	29	3	26	0	94	26	9	7	12	40	5	0	3	1	1	0	0	57	3	9	4	12	0	3	14	12
Claremont Graduate U.	127	0	0	0	0	11	0	11	0	0	0	46	0	14	17	13	1	1	2	0	0	0	0	0	0	0	2
Claremont School of Theology	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fielding Graduate Institute	103	0	0	0	0	0	0	0	0	0	0	68	0	0	1	60	1	6	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary	55	0	0	0	0	0	0	0	0	0	0	27	3	0	0	22	0	2	0	0	0	0	0	0	0	0	0
Graduate Theological Union	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Institute of Transpersonal Psychology	25	0	0	0	0	0	0	0	0	0	0	25	0	0	0	24	0	1	0	0	0	0	0	0	0	0	0
La Sierra U.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	27	19	0	14	5	0	0	0	0	0	0	8	0	0	0	6	0	2	0	0	0	0	0	0	0	0	0
Naval Postgraduate School	6	0	0	0	0	3	0	2	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0
Pacific Graduate School of Psychology	32	0	0	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0
Pardee RAND Graduate School	10	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
Pepperdine U.	57	0	0	0	0	2	0	2	0	0	0	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0
San Diego State U.	7	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saybrook Graduate School	31	2	0	0	2	0	0	0	0	0	0	21	0	0	0	20	0	1	0	0	0	0	0	0	0	0	0
Scripps Research Institute, The	28	16	0	16	0	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stanford U.	638	103	4	98	1	140	23	26	24	26	41	70	7	20	17	17	7	2	190	13	16	11	83	2	17	35	13
U. CA, Berkeley	856	158	26	119	13	192	67	37	10	32	46	159	18	43	29	16	18	35	196	0	23	28	50	0	15	46	34
U. CA, Davis	500	202	32	156	14	88	24	20	6	22	16	56	4	16	4	18	5	9	98	2	10	20	23	0	6	17	20
U. CA, Irvine	371	76	2	70	4	82	32	21	6	6	17	60	4	16	4	17	11	8	79	3	0	10	35	0	13	4	14
U. CA, Los Angeles	724	182	0	141	41	121	31	21	20	27	22	134	13	24	34	33	16	14	114	5	7	10	44	0	10	15	23
U. CA, Merced	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
U. CA, Riverside	224	66	8	54	4	45	15	17	1	10	2	24	5	4	0	9	5	1	33	0	10	1	16	0	1	4	1
U. CA, San Diego	448	126	0	121	5	119	24	28	33	12	22	64	1	18	11	20	7	7	94	1	3	10	43	0	12	10	15
U. CA, San Francisco	141	121	0	84	37	3	3	0	0	0	0	8	2	0	0	0	6	0	9	0	0	0	0	0	0	0	9
U. CA, Santa Barbara	344	25	5	20	0	79	19	19	11	14	16	69	5	16	10	20	8	10	83	0	17	0	37	0	15	13	1

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			ıl resources	sec				ciences	ocean sciences						ıal relations			<u>-</u>				Er	ngineeri	ng			
nstitution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. CA, Santa Cruz	126	28	3	25	0	37	6	2	9	7	13	33	4	6	6	7	6	4	7	0	0	0	6	0	1	0	0
U. San Diego	23	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. San Francisco	36	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	(
U. Southern CA	571	83	0	60	23	78	16	39	6	6	11	81	3	11	19	21	6	21	116	2	8	14	59	3	3	9	18
U. the Pacific	37	10	0	3	7	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	(
Colorado	780	190	12	136	42	183	39	24	38	37	45	100	7	15	10	47	5	16	109	10	19	31	25	0	2	12	10
CO School of Mines	35	0	0	0	0	163	2	0	8	0	6	0	0	0	0	0	0	0	109	0	7	2	23	0	2	0	6
CO State U.	206		-	-	-	46	14	3	10	14	5	-	0	6	0	•	-	1	30	0	2	19	5	0	0	3	1
U. CO		73	10 2	53	10 2			•				22 41	6	-	4	13	2			•	_		-			9	3
U. CO Health Sciences Ctr.	307 68	32 66	0	28 48	18	104 2	21 0	13 0	20 0	16 2	34 0	0	0	9	0	10 0	0	9	55 0	10 0	10 0	8	15 0	0	0	0	0
U. CO-Colorado Springs	7	00	0	40	0	3	0	3	0	0	0	1	0	0	0	1	0	0	3	0	0	0	3	0	0	0	0
U. CO-Denver	30	3	0	3	0	4	0	2	0	2	0	4	0	0	0	0	0	4	2	0	0	2	0	0	0	0	0
U. Denver	85	2	0	2	0	6	2	3	0	1	0	28	1	0	6	19	0	2	0	0	0	0	0	0	0	0	0
U. Northern CO	42	14	0	2	12	2	0	0	0	2	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Connecticut	662	195	9	162	24	112	34	11	13	17	37	127	11	19	28	53	9	7	72	0	12	4	18	0	12	13	13
U. CT	283	91	8	70	13	46	15	6	7	8	10	50	4	6	6	30	3	1	45	0	5	3	11	0	11	11	4
U. New Haven	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wesleyan U.	12	7	0	7	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yale U.	366	97	1	85	11	64	18	5	6	8	27	77	7	13	22	23	6	6	27	0	7	1	7	0	1	2	9
Delaware	227	25	6	16	3	40	15	5	5	6	9	22	0	2	4	5	4	7	45	0	12	5	10	0	12	5	1
U. DE	179	25	6	16	3	40	15	5	5	6	9	22	0	2	4	5	4	7	45	0	12	5	10	0	12	5	1
Wilmington C.	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	551	84	0	72	12	48	13	12	1	12	10	149	7	27	47	40	9	19	50	2	0	5	11	0	0	7	25
American U.	56	1	0	1	0	0	0	0	0	0	0	38	5	9	7	7	4	6	0	0	0	0	0	0	0	0	0
Catholic U. America	74	11	0	5	6	6	0	2	0	0	4	16	0	0	7	7	2	0	4	0	0	1	1	0	0	1	1
Gallaudet U.	6	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
George Washington U.	212	22	0	19	3	22	1	10	1	9	1	30	2	7	2	10	0	9	41	1	0	4	6	0	0	6	24
Georgetown U.	101	31	0	31	0	9	7	0	0	0	2	33	0	6	26	1	0	0	0	0	0	0	0	0	0	0	0
Howard U.	102	18	0	16	2	11	5	0	0	3	3	31	0	5	5	14	3	4	5	1	0	0	4	0	0	0	0
Florida	2,018	344	59	192	93	338	73	83	41	57	84	309	25	19	20	179	18	48	364	14	24	57	117	27	38	37	50
Barry U.	36	1	0	0	1	1	0	1	0	0	0	6	0	0	0	5	0	1	1	0	0	0	0	0	0	1	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			al resources	ces				sciences	ocean sciences						nal relations			_				En	gineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
FL A&M U.	9	3	3	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	3	1	0	0
FL Atlantic U.	83	13	1	10	2	7	2	4	0	1	0	11	0	0	0	8	2	1	6	0	0	0	4	0	1	0	1
FL Institute of Technology	31	4	1	3	0	10	2	2	0	5	1	6	0	0	0	6	0	0	7	0	0	0	5	0	0	2	0
FL International U.	122	13	0	11	2	16	2	9	3	0	2	18	0	4	4	8	1	1	35	0	0	8	19	0	3	4	1
FL State U.	344	26	0	20	6	73	11	11	11	16	24	66	0	5	5	38	6	12	22	0	2	5	8	2	1	3	1
Lynn U.	22	0	0	0	0	0	0	0	0	0	0	4	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0
Nova Southeastern U.	102	0	0	0	0	24	0	23	1	0	0	27	0	0	0	23	0	4	0	0	0	0	0	0	0	0	0
U. Central FL	207	13	0	5	8	42	3	14	3	4	18	32	0	0	0	20	1	11	54	0	0	7	22	10	6	4	5
U. FL	674	194	54	93	47	97	41	9	3	19	25	87	17	7	6	43	5	9	179	14	18	29	42	3	26	19	28
U. Miami	135	31	0	24	7	23	4	1	12	0	6	25	0	1	3	17	3	1	14	0	0	1	3	4	0	0	6
U. South FL	220	46	0	26	20	43	8	9	8	12	6	27	8	1	0	11	0	7	42	0	4	7	14	5	0	4	8
U. West FL	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Georgia	1,356	264	29	190	45	197	55	60	21	28	33	159	10	22	25	76	6	20	325	39	35	24	86	20	28	40	53
Clark Atlanta U.	29	1	0	1	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
Emory U.	202	74	0	63	11	19	12	0	0	4	3	28	5	4	5	10	2	2	0	0	0	0	0	0	0	0	0
GA Institute of Technology	451	18	0	18	0	90	17	32	12	11	18	11	0	0	0	5	0	6	319	39	35	24	86	20	28	40	47
GA Southern U.	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GA State U.	195	34	0	30	4	30	4	15	1	0	10	53	0	15	2	27	2	7	0	0	0	0	0	0	0	0	0
Medical C. GA	21	21	0	19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercer U. Southern School of Pharmacy	5	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morehouse School of Medicine	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. GA	383	110	29	58	23	58	22	13	8	13	2	62	5	3	13	34	2	5	6	0	0	0	0	0	0	0	6
Hawaii	193	41	13	24	4	33	3	6	13	0	11	59	9	6	17	15	3	9	7	0	0	2	3	0	0	2	0
U. HI Manoa	193	41	13	24	4	33	3	6	13	0	11	59	9	6	17	15	3	9	7	0	0	2	3	0	0	2	0
Idaho	140	44	20	21	3	14	3	3	4	0	4	11	0	0	1	8	0	2	17	0	1	4	3	0	3	2	4
Boise State U.	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID State U.	38	13	0	12	1	4	0	0	0	0	4	8	0	0	0	8	0	0	3	0	0	1	0	0	0	0	2
U. ID	101	31	20	9	2	9	3	3	3	0	0	3	0	0	1	0	0	2	14	0	1	3	3	0	3	2	2

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ience																	
			al resources	ces				sciences	and ocean sciences						intemational relations			-				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oo	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ internatior	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Illinois	2,362	421	38	306	77	393	125	91	20	79	78	385	40	69	63	156	31	26	403	14	51	59	104	7	38	66	64
Benedictine U.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chicago Theological Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DePaul U.	20	0	0	0	0	4	0	4	0	0	0	10	0	0	0	9	0	1	0	0	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	13	12	0	12	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Garrett Evangelical Theological Seminary	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IL Institute of Technology IL State U.	67 56	6 6	0	6 6	0	12 0	0 0	8	0	2	2	13 8	0	0	0	13 8	0	0	28 0	4 0	5 0	3	8	0	0	0	8
Institute for Clinical Social Work	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loyola U. Chicago	124	23	0	16	7	2	2	0	0	0	0	29	0	0	2	22	5	0	0	0	0	0	0	0	0	0	0
Lutheran School of Theology Chicago	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
National-Louis U.	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern IL U.	99	3	0	3	0	11	3	0	3	2	3	28	0	4	7	15	0	2	0	0	0	0	0	0	0	0	0
Northwestern U.	353	59	0	56	3	70	39	7	2	12	10	49	3	16	10	15	1	4	101	0	20	6	15	6	20	19	15
Roosevelt U.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rush U.	17	17	0	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern IL U.	140	17	1	13	3	11	4	2	0	3	2	36	4	8	2	19	3	0	9	0	0	0	3	0	1	1	4
U. Chicago, The	389	57	0	56	1	83	23	9	5	22	24	92	18	27	18	12	14	3	1	0	0	0	0	0	0	0	1
U. IL-Chicago	280	90	0	53	37	50	22	11	1	12	4	33	4	6	2	11	3	7	53	0	10	8	14	1	0	5	15
U. IL-Urbana-Champaign	735	131	37	76	18	150	32	50	9	26	33	86	11	8	22	31	5	9	211	10	16	42	64	0	17	41	21
Indiana	1,284	231	45	137	49	237	82	53	18	40	44	160	5	15	33	80	16	11	242	15	34	27	73	12	14	48	19
Ball State U.	42	3	0	3	0	2	0	0	0	0	2	16	0	0	3	13	0	0	0	0	0	0	0	0	0	0	0
IN State U.	66	4	0	4	0	2	0	1	1	0	0	13	0	0	0	11	0	2	5	0	0	1	0	2	0	0	2
IN U.	398	79	4	51	24	57	12	21	5	9	10	63	4	8	10	25	8	8	0	0	0	0	0	0	0	0	0
Purdue U.	597	122	40	57	25	131	53	24	8	26	20	39	1	3	9	21	4	1	192	12	22	24	56	10	14	38	16
U. Notre Dame	181	23	1	22	0	45	17	7	4	5	12	29	0	4	11	10	4	0	45	3	12	2	17	0	0	10	1

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

			s S						S																		
			l resourc	ses				sciences	ocean sciences						international relations			_				En	igineerii	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ internation	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
lowa	694	203	29	133	41	113	42	20	6	32	13	70	3	13	8	30	6	10	108	2	16	20	19	7	12	21	11
Drake U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IA State U.	310	97	29	63	5	54	22	14	2	10	6	23	0	6	0	13	2	2	73	2	7	12	16	4	12	16	4
Maharishi U. Management	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Ambrose U.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. IA	358	105	0	69	36	59	20	6	4	22	7	47	3	7	8	17	4	8	35	0	9	8	3	3	0	5	7
U. Northern IA	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	443	95	26	55	14	65	31	10	2	7	15	76	2	9	4	53	2	6	44	7	3	6	10	8	0	7	3
KS State U.	155	53	26	27	0	26	7	4	0	3	12	21	0	5	0	13	1	2	15	0	1	4	3	1	0	3	3
U. KS	255	42	0	28	14	34	20	6	2	3	3	48	2	4	4	33	1	4	14	2	2	2	4	0	0	4	0
Wichita State U.	33	0	0	0	0	5	4	0	0	1	0	7	0	0	0	7	0	0	15	5	0	0	3	7	0	0	0
	440	105	11	01	33	55	15	12	3	17	7	GE	6	9	2	36	3	9	58	0	12	5	15	5	2	1.1	_
Kentucky Asbury Theological Seminary	449 8	125 0	11 0	81 0	0	0	0	13 0	0	0	0	65 0	0	0	0	0	0	0	0	0	12 0	0	15 0	0	0	14 0	5 0
Southern Baptist Theological Seminary, The	38	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
U. KY	262	83	11	44	28	43	11	9	3	13	7	41	6	9	2	15	3	6	38	0	10	3	9	0	2	11	3
U. Louisville	141	42	0	37	5	12	4	4	0	4	0	23	0	0	0	20	0	3	20	0	2	2	6	5	0	3	2
Louisiana	541	165	22	89	54	79	35	11	10	16	7	72	7	2	9	35	6	13	67	0	13	9	16	0	1	8	20
Grambling State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA State U. and A&M C.	216	52	18	20	14	41	21	3	8	5	4	28	0	1	3	17	2	5	34	0	9	6	3	0	0	7	9
LA State U. Health Sciences Ctr. New Orleans	21	21	0	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA State U. Health Sciences Ctr. Shreveport	13	13	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	32	1	0	1	0	6	0	2	0	4	0	3	0	0	0	3	0	0	16	0	0	1	7	0	0	0	8
New Orleans Baptist Theological Seminary	17	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
Southern U. and A&M C.	6	3	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Tulane U.	120	48	0	26	22	10	4	1	1	3	1	17	7	1	0	2	4	3	9	0	4	1	0	0	1	1	2
U. LA Lafayette	39	12	1	7	4	7	0	3	0	4	0	1	0	0	0	1	0	0	3	0	0	0	3	0	0	0	0
U. LA Monroe	15	9	0	7	2	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

TABLE TOO. Motitutions granting to								-		ence																	
			resources	ses				ciences	ocean sciences						al relations							En	ıgineeriı	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. New Orleans	61	6	3	2	1	15	10	2	1	0	2	13	0	0	6	4	0	3	5	0	0	1	3	0	0	0	1
Maine	51	21	8	13	0	13	2	0	8	0	3	4	0	1	0	2	0	1	6	0	5	1	0	0	0	0	0
U. ME	50	21	8	13	0	13	2	0	8	0	3	3	0	1	0	2	0	0	6	0	5	1	0	0	0	0	0
U. Southern ME	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Maryland	1,302	430	32	260	138	223	33	72	16	38	64	170	4	35	28	56	10	37	210	8	23	25	73	1	10	35	35
Baltimore Hebrew U.	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Bowie State U.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johns Hopkins U.	427	235	0	143	92	50	12	13	2	9	14	29	2	10	7	5	2	3	63	0	7	3	13	0	6	9	25
Loyola C. in MD	6	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
Morgan State U.	42	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0
Towson U.	6	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. the Health Sciences	19	13	0	9	4	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
U. MD	614	88	29	47	12	136	15	38	12	25	46	110	2	25	20	30	8	25	127	8	9	19	55	1	4	21	10
U. MD Baltimore County	93	20	0	19	1	30	5	15	2	4	4	18	0	0	1	10	0	7	18	0	7	2	4	0	0	5	0
U. MD Eastern Shore	8	3	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
U. MD School of Medicine	81	68	0	42	26	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Massachusetts	2,591	636	23	502	111	498	123	102	39	69	165	446	29	106	73	134	34	70	424	15	52	24	124	5	39	64	101
American International C.	6	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Boston C.	144	15	0	8	7	19	13	0	0	0	6	34	0	11	5	11	7	0	0	0	0	0	0	0	0	0	0
Boston U.	407	129	1	108	20	50	11	7	3	10	19	73	2	29	8	27	5	2	41	0	0	0	13	0	2	5	21
Brandeis U.	83	19	0	19	0	18	3	4	0	6	5	23	2	2	3	3	2	11	0	0	0	0	0	0	0	0	0
Clark U.	34	3	0	3	0	4	3	0	0	0	1	25	0	2	0	7	0	16	0	0	0	0	0	0	0	0	0
Harvard U.	660	223	0	167	56	105	27	10	5	15	48	128	20	32	22	30	10	14	9	0	0	0	4	0	0	0	5
MA Institute of Technology	599	68	2	62	4	180	34	46	29	23	48	58	2	21	16	6	1	12	254	15	26	15	62	0	34	41	61
New England Conservatory of Music	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northeastern U.	101	21	0	15	6	20	6	8	0	3	3	17	0	0	4	1	7	5	33	0	2	3	16	5	1	5	1
Simmons C.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smith C.	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Springfield C.	2	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sc	ience																	
			al resources	ces				sciences	ocean sciences						nal relations							Eı	ngineer	ing			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Suffolk U.	15	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
Tufts U.	106	46	1	42	3	10	5	1	0	2	2	19	0	0	6	12	0	1	15	0	3	2	3	0	0	3	4
U. MA Amherst	288	59	15	37	7	67	17	20	1	8	21	41	3	9	9	14	2	4	45	0	13	3	19	0	1	8	1
U. MA Dartmouth	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0
U. MA Harbor campus	26	4	0	2	2	4	2	1	1	0	0	9	0	0	0	5	0	4	0	0	0	0	0	0	0	0	0
U. MA Lowell	48	9	4	0	5	13	2	2	0	0	9	0	0	0	0	0	0	0	14	0	7	0	1	0	0	1	5
U. MA Worcester	41	39	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Worcester Polytechnic Institute	17	0	0	0	0	8	0	3	0	2	3	0	0	0	0	0	0	0	9	0	1	1	4	0	1	1	1
Michigan	1,599	320	40	220	60	274	96	40	23	55	60	239	23	44	33	95	20	24	332	16	35	23	85	12	17	76	68
Andrews U.	25	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Central MI U.	17	0	0	0	0	4	0	0	0	4	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
Eastern MI U.	15	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	2	0	0	0	0	0	0	0	2
MI State U.	436	109	31	65	13	79	33	11	1	13	21	59	3	11	8	20	5	12	39	0	8	3	14	0	3	5	6
MI Technological U.	54	8	5	3	0	18	3	1	5	1	8	0	0	0	0	0	0	0	22	0	1	4	4	0	2	8	3
Oakland U.	33	2	0	2	0	5	1	0	0	4	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	9	4
U. Detroit Mercy	6	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	1	0	0	0	1	0	0	0	0
U. MI	716	150	4	112	34	125	38	21	14	26	26	101	18	27	21	19	8	8	215	16	19	12	55	10	10	51	42
Wayne State U.	192	43	0	35	8	30	17	5	0	5	3	35	2	4	2	22	5	0	36	0	6	4	10	1	2	3	10
Western MI U.	105	8	0	3	5	13	4	2	3	2	2	28	0	2	2	19	2	3	4	0	1	0	1	1	0	0	1
Minnesota	960	197	26	112	59	109	28	20	12	22	27	147	3	19	12	74	14	25	129	11	20	12	27	1	12	15	31
Hamline U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luther Seminary	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayo Graduate School	26	21	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
St. Mary's U. MN	21	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
U. MN	690	166	26	91	49	106	28	17	12	22	27	104	3	19	12	39	13	18	110	10	20	12	27	1	12	15	13
U. St. Thomas	12	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walden U.	203	9	0	0	9	3	0	3	0	0	0	43	0	0	0	35	1	7	13	0	0	0	0	0	0	0	13
Mississippi	402	76	16	35	25	33	16	4	5	4	4	49	0	5	5	27	3	9	29	1	4	2	7	3	0	1	11
Delta State U.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackson State U.	56	3	3	0	0	3	3	0	0	0	0	5	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0
MS State U.	117	24	10	10	4	6	2	1	0	0	3	10	0	1	1	3	3	2	22	1	3	1	5	3	0	0	9
U. MS	80	15	1	2	12	6	2	0	2	1	1	13	0	3	2	7	0	1	6	0	0	1	2	0	0	1	2

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			Il resources	sec				ciences	ean sciences						intemational relations			<u>-</u>				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ internation	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. MS Medical Ctr.	18	18	0	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. Southern MS	126	16	2	10	4	18	9	3	3	3	0	21	0	1	2	15	0	3	1	0	1	0	0	0	0	0	0
Missouri	880	228	15	170	43	127	43	17	20	21	26	107	6	13	11	62	10	5	125	1	16	16	28	1	5	20	38
Concordia Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MO U. of Science and Technology	63	1	0	1	0	16	4	3	5	2	2	0	0	0	0	0	0	0	46	1	3	5	14	0	5	8	10
St. Louis U.	133	35	0	20	15	8	1	0	6	1	0	17	0	0	0	16	0	1	0	0	0	0	0	0	0	0	0
U. MO-Columbia	327	65	14	44	7	49	18	6	4	14	7	38	0	3	5	19	10	1	37	0	4	6	7	1	0	12	7
U. MO-Kansas City	46	14	0	4	10	5	1	3	0	0	1	18	0	4	1	13	0	0	3	0	0	2	1	0	0	0	0
U. MO-St. Louis	59	18	0	9	9	3	3	0	0	0	0	11	0	0	2	6	0	3	0	0	0	0	0	0	0	0	0
Washington U.	245	95	1	92	2	46	16	5	5	4	16	23	6	6	3	8	0	0	39	0	9	3	6	0	0	0	21
Montana	98	45	11	29	5	18	9	2	0	2	5	4	0	0	0	3	1	0	9	0	3	2	2	2	0	0	0
MT State U.	43	16	2	14	0	11	3	2	0	1	5	0	0	0	0	0	0	0	9	0	3	2	2	2	0	0	0
U. MT	55	29	9	15	5	7	6	0	0	1	0	4	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0
Nebraska	296	81	17	45	19	39	7	6	3	13	10	41	0	3	1	20	3	14	27	0	2	2	8	3	2	6	4
Creighton U.	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE Medical Ctr.	31	30	0	18	12	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE-Lincoln	240	47	17	23	7	37	7	5	3	13	9	31	0	3	1	20	3	4	27	0	2	2	8	3	2	6	4
U. NE-Omaha	21	0	0	0	0	1	0	1	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
Nevada	151	29	3	22	4	18	6	1	7	0	4	29	0	0	0	27	1	1	24	0	0	6	4	0	5	8	1
U. NV, Las Vegas	71	7	1	3	3	3	1	0	2	0	0	11	0	0	0	9	1	1	17	0	0	4	3	0	2	7	1
U. NV, Reno	80	22	2	19	1	15	5	1	5	0	4	18	0	0	0	18	0	0	7	0	0	2	1	0	3	1	0
New Hampshire	140	57	5	51	1	38	5	10	7	7	9	15	0	1	1	11	1	1	15	0	2	0	3	0	0	1	9
Antioch New England Graduate School	7	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dartmouth C.	81	40	0	39	1	24	2	9	2	6	5	5	0	0	0	5	0	0	12	0	2	0	2	0	0	0	8
Southern NH U.	4	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
U. NH	48	13	2	11	0	14	3	1	5	1	4	8	0	1	0	6	1	0	3	0	0	0	1	0	0	1	1
New Jersey	1,023	199	19	167	13	208	44	62	21	33	48	135	3	31	20	45	13	23	169	3	21	11	73	7	14	15	25
Drew U.	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U.	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sc	ience																	
			al resources	ces				sciences	ocean sciences						nal relations			_				Er	ngineerii	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Montclair State U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ Institute Technology	54	3	2	1	0	29	0	17	0	4	8	1	0	0	0	0	0	1	21	0	2	2	9	1	2	2	3
Princeton Theological Seminary	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Princeton U.	307	35	0	35	0	83	22	17	11	9	24	50	2	26	8	3	8	3	58	3	12	5	27	0	1	6	4
Rutgers U.	389	70	17	43	10	79	14	26	8	18	13	57	1	5	10	23	5	13	76	0	5	4	33	5	11	7	11
Rutgers State UNewark	53	11	0	11	0	7	4	0	1	2	0	11	0	0	2	3	0	6	0	0	0	0	0	0	0	0	0
Seton Hall U.	66	1	0	0	1	3	3	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
Stevens Institute of Technology	25	2	0	2	0	7	1	2	1	0	3	0	0	0	0	0	0	0	11	0	2	0	4	1	0	0	4
U. Medicine & Dentistry of NJ	80	77	0	75	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
New Mexico	264	52	9	37	6	48	11	15	7	2	13	28	4	4	3	16	1	0	44	0	5	8	18	1	2	4	6
NM Institute of Mining & Technology	15	2	2	0	0	11	2	4	4	0	1	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0
NM State U.	82	18	6	12	0	12	3	6	0	0	3	6	0	0	0	6	0	0	16	0	2	5	5	1	0	2	1
U. NM	167	32	1	25	6	25	6	5	3	2	9	22	4	4	3	10	1	0	26	0	2	3	13	0	1	2	5
New York	3,986	872	68	702	102	690	181	140	51	135	183	819	80	115	97	349	91	87	439	8	55	48	134	6	36	64	88
Adelphi U.	20	0	0	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
Albany Medical C.	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfred U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	3	0	1
Clarkson U.	25	0	0	0	0	10	2	0	1	3	4	0	0	0	0	0	0	0	15	0	2	5	3	0	0	4	1
Columbia U.	461	107	0	81	26	99	24	20	9	20	26	69	21	14	11	4	9	10	47	0	7	6	13	0	2	2	17
Cornell U.	475	144	60	81	3	112	32	12	7	16	45	74	6	16	13	10	9	20	72	2	8	7	22	0	4	13	16
Cornell U. Weill Med. College	37	37	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fordham U.	112	5	0	5	0	0	0	0	0	0	0	44	0	6	0	36	2	0	0	0	0	0	0	0	0	0	0
Graduate School & U. Ctr., CUNY	358	41	1	34	6	59	21	17	4	7	10	116	12	8	14	53	19	10	29	0	7	2	15	0	0	2	3
Hofstra U.	21	0	0	0	0	0	0	0	0	0	0	13	0	0	0	12	0	1	0	0	0	0	0	0	0	0	0
Jewish Theological Seminary of America	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Juilliard School, The	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

									Sci	ence																	
			resources	ses				ciences	an sciences						al relations			_				Er	ıgineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Long Island UBrooklyn campus	20	0	0	0	0	0	0	0	0	0	0	20	0	0	0	18	0	2	0	0	0	0	0	0	0	0	0
Long Island UC. W. Post campus	4	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine New School, The NY Medical C. NY U.	34 62 10 409	34 0 10 80	0 0 0	34 0 10 59	0 0 0 21	0 0 0 51	0 0 0 14	0 0 0 11	0 0 0	0 0 0 22	0 0 0 4	0 55 0 79	0 2 0 12	0 8 0 12	0 9 0 12	0 21 0 30	0 12 0 9	0 3 0 4	0 0 0 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 1
Polytechnic U. Rensselaer Polytechnic Institute	29 158	0 6	0	0 6	0	10 44	2 11	5 12	0	3	0 12	0 9	0	0	0	0	0	0 5	19 83	0	3 17	1 7	13 19	0	0 10	2 18	0 10
Rochester Institute of Technology	19	0	0	0	0	9	0	0	0	0	9	0	0	0	0	0	0	0	6	0	0	0	2	0	0	0	4
Rockefeller U., The SUNY Binghamton U.	26 116	23 7	0	21 5	2	3 25	2 9	1 7	0	0 7	0	0 30	0 7	0 5	0	0 7	0 6	0	0 14	0	0	0	0	0 2	0	0 4	0 5
SUNY C. of Environmental Science and Forestry	22	14	5	9	0	4	3	0	1	0	0	2	0	1	0	0	0	1	2	0	1	0	0	0	0	0	1
SUNY Health Science Ctr. Brooklyn	7	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY State C. of Optometry SUNY Stony Brook U.	2 300	2 74	0	1 74	1 0	0 106	0 12	0 20	0 19	0 30	0 25	0 46	0 3	0 8	0 6	0 23	0 5	0 1	0 38	0	0	0	0 10	0	0 11	0 6	0 11
SUNY U. Albany SUNY U. Buffalo	148 329	15 68	1	11 48	3 19	26 50	5 21	8 15	3	4	7 7	54 46	4 1	7	6 9	19 21	9 5	9 7	5 49	0	0 5	0 16	0 16	3	0	0 5	3
SUNY Upstate Medical U. St. John's UQueens Syracuse U.	20 41 157	20 8 9	0 0 0	20 5 8	0 3 1	0 0 25	0 0 9	0 0 5	0 0 0	0 0 2	0 0 9	0 10 49	0 0 8	0 0 9	0 0 5	0 10 13	0 0 4	0 0 10	0 0 28	0 0 5	0 0	0 0 4	0 0 12	0 0 0	0 0 0	0 0 4	0 0 3
Teachers C., Columbia U. Union Theological Seminary U. Rochester	216 4 245	10 0 86	0 0	4 0 77	6 0 9	3 0 50	1 0 13	0 0 3	0 0 0 2	2 0 7	0 0 25	43 0 31	4 0 0	0 0 16	7 0 3	31 0 12	1 0 0	0 0	0 0 27	0 0	0 0 0 5	0 0 0	0 0 8	0 0	0 0 2	0 0 4	0 0 8
Yeshiva U.	75	56	0	56	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
North Carolina Appalachian State U.	1,449 18	459 0	46 0	326 0	87 0	226 0	64 0	46 0	14 0	67 0	35 0	180 0	7 0	35 0	18 0	64 0	22 0	34 0	191 0	4 0	14 0	27 0	47 0	6 0	18 0	26 0	49 0

Summary Report 2007-08

Science and ocean sciences relations Agricultural sciences/natural resources Computer and information sciences Engineering Political science/international Aerospace/aeronautical related Physics and astronomy Materials/metallurgical Biological/biomedical Other social sciences Chemical and related Electrical and related atmospheric, Physical sciences Civil and related and Health sciences Social sciences _ife sciences Mathematics Anthropology Engineering Mechanical Economics Psychology Sociology Chemistry Industrial Earth, ΑII Other Institution fields Duke U. East Carolina U. NC A&T State U NC State U. Southeastern Baptist n n Theological Seminary U. NC Chapel Hill U. NC Charlotte Λ U. NC Greensboro U. NC Wilmington Wake Forest U. n n n n North Dakota ND State U. U. ND Ohio 1.921 Air Force Institute of Technology Bowling Green State U. Case Western Reserve U. Cleveland State U. Hebrew Union C. Kent State U n Miami U. OH State U., The OH U. U. Akron U. Cincinnati U. Dayton Λ U. Toledo Wright State U Youngstown State U.

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			resources	ses				ciences	ocean sciences						al relations			<u>-</u>				En	ıgineeriı	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Oklahoma	360	93	28	56	9	42	11	9	11	4	7	48	1	4	2	28	5	8	49	0	13	2	10	8	0	9	7
OK State U.	143	42	27	14	1	13	4	2	1	1	5	13	0	0	0	10	0	3	15	0	0	0	4	1	0	6	4
U. OK	199	48	1	39	8	24	7	3	9	3	2	29	1	4	2	12	5	5	31	0	10	2	6	7	0	3	3
U. Tulsa	18	3	0	3	0	5	0	4	1	0	0	6	0	0	0	6	0	0	3	0	3	0	0	0	0	0	0
Oregon	413	135	37	82	16	74	29	10	12	9	14	52	2	5	4	21	4	16	36	0	3	2	16	0	4	2	9
OR Health & Science U.	50	39	1	33	5	2	0	1	1	0	0	0	0	0	0	0	0	0	8	0	0	1	5	0	0	0	2
OR State U.	172	73	34	29	10	40	15	5	10	4	6	6	0	2	0	2	0	2	22	0	3	1	8	0	4	2	4
Portland State U.	45	4	2	2	0	3	1	2	0	0	0	12	0	0	2	1	0	9	6	0	0	0	3	0	0	0	3
U. OR	146	19	0	18	1	29	13	2	1	5	8	34	2	3	2	18	4	5	0	0	0	0	0	0	0	0	0
Pennsylvania	2,463	487	22	339	126	420	112	144	29	62	73	312	26	39	31	138	30	48	468	5	80	31	101	24	73	56	98
Bryn Mawr C.	18	0	0	0	0	3	0	0	0	3	0	6	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0
Carnegie Mellon U.	257	10	0	10	0	99	11	65	1	8	14	17	0	5	2	6	1	3	109	0	19	8	38	0	15	15	14
Drexel U.	119	28	1	25	2	17	4	9	0	1	3	16	0	1	0	15	0	0	50	0	9	4	5	0	12	11	9
Duquesne U.	39	3	0	3	0	5	5	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
Gannon U.	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Indiana U. PA	70	0	0	0	0	0	0	0	0	0	0	11	0	0	0	3	4	4	0	0	0	0	0	0	0	0	0
Lehigh U.	98	8	1	7	0	23	3	6	2	3	9	9	0	2	0	7	0	0	49	0	10	6	11	7	5	8	2
Lutheran Theological Seminary at Philadelphia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marywood U.	8	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA State U., The	658	123	20	91	12	117	29	25	22	18	23	79	4	9	8	38	8	12	165	5	18	10	34	10	30	16	42
Temple U.	239	48	0	29	19	27	10	3	0	12	2	54	7	3	3	26	3	12	1	0	0	0	0	0	0	0	1
Thomas Jefferson U.	16	16	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PA	465	101	0	89	12	57	18	15	2	7	15	60	10	10	9	11	8	12	54	0	14	0	7	0	11	5	17
U. Pittsburgh	405	129	0	68	61	69	29	21	2	10	7	47	5	9	9	14	6	4	38	0	10	2	5	7	0	1	13
U. the Sciences in Philadelphia	12	9	0	1	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villanova U.	6	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0
Westminster Theological Seminary	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Widener U.	43	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			al resources	ces				sciences	ocean sciences						nal relations			-				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Puerto Rico	236	18	0	18	0	23	8	5	1	1	8	95	0	0	0	87	0	8	9	0	3	5	1	0	0	0	0
Carlos Albizu U. San Juan campus	36	0	0	0	0	0	0	0	0	0	0	36	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0
Inter American U. PR-Metro campus	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ponce School of Medicine	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. PR-Ponce	18	0	0	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
U. PR-Mayaguez	18	0	0	0	0	8	1	5	1	1	0	1	0	0	0	0	0	1	9	0	3	5	1	0	0	0	0
U. PR-Medical Sciences campus	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Rio Piedras	106	11	0	11	0	15	7	0	0	0	8	40	0	0	0	33	0	7	0	0	0	0	0	0	0	0	0
Rhode Island Brown U.	278 205	37 28	3	28 24	6 4	68 52	12 7	13 12	13 5	15 15	15 13	52 31	6 6	16 14	4	23 4	2	1 1	37 28	0	7 4	0	6 5	1	0	10 6	13 13
Salve Regina U.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. RI	68	9	3	4	2	16	5	1	8	0	2	21	0	2	0	19	0	0	9	0	3	0	1	1	0	4	0
South Carolina Clemson U.	413 145	114 29	8 7	75 19	31 3	78 32	29 13	16 7	8	18 6	7 6	50 18	0	12 10	5 0	24 6	4 0	5 2	83 50	0	22 10	16 11	17 9	2	3	13 6	10 9
Medical U. SC	44	43	0	37	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SC State U.	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. SC	213	42	1	19	22	45	15	9	8	12	1	32	0	2	5	18	4	3	33	0	12	5	8	0	0	7	1
South Dakota	83	17	3	11	3	1	0	0	1	0	0	16	0	0	0	10	6	0	2	0	0	1	0	0	0	0	1
SD School of Mines & Technology	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
SD State U. U. SD	21 61	13 4	3	7 4	3	1 0	0	0	1 0	0	0	6 10	0	0	0	0 10	6 0	0	1	0	0	0	0	0	0	0	1 0
Tennessee East TN State U. Meharry Medical C.	789 45 4	224 10 4	18 0 0	160 7 4	46 3 0	77 0 0	31 0 0	15 0 0	5 0 0	13 0 0	13 0 0	97 0 0	9 0 0	6 0 0	7 0 0	56 0 0	7 0 0	12 0 0	124 0 0	3 0 0	13 0 0	14 0 0	39 0 0	5 0 0	14 0 0	14 0 0	22 0 0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ience																	
			resources	es				ciences	ocean sciences						al relations			_				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Mid-America Baptist Theological Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle TN State U.	15	4	0	0	4	1	1	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
TN State U.	49	0	0	0	0	0	0	0	0	0	0	12	0	0	0	10	0	2	1	0	0	0	0	0	0	0	1
TN Technological U.	23	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	2	2	3	0	0	6	0
U. Memphis	100	9	1	7	1	8	3	2	1	2	0	27	0	1	0	23	0	3	9	0	0	1	4	0	1	1	2
U. TN Health Science Ctr.	42	40	0	23	17	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
U. TN, Chattanooga	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0
U. TN, Knoxville	242	49	15	24	10	29	14	4	3	5	3	37	6	1	5	15	3	7	56	2	5	4	20	4	10	4	7
Vanderbilt U.	266	105	0	94	11	39	13	9	1	6	10	19	3	2	2	8	4	0	42	0	6	7	12	1	3	2	11
Texas	3,384	735	72	514	149	558	125	140	77	93	123	439	17	57	49	221	29	66	605	19	86	83	187	26	32	80	92
Baylor C. of Medicine	74	74	0	72	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baylor U.	43	9	0	7	2	11	5	0	1	4	1	4	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
Dallas Theological Seminary	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lamar U.	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	1	0	1	0	1	0
Prairie View A&M	9	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
Rice U.	177	19	0	19	0	67	15	5	9	15	23	18	0	9	2	6	1	0	59	1	6	6	13	0	3	5	25
St. Mary's U.	14	0	0	0	0	0	0	0	0	0	0	11	0	0	0	10	0	1	0	0	0	0	0	0	0	0	0
Sam Houston State U.	10	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
Southern Methodist U.	42	2	0	2	0	13	0	4	1	8	0	6	1	4	0	1	0	0	15	0	0	1	7	0	0	3	4
Southwestern Baptist Theological Seminary	22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M U.	594	129	40	77	12	107	34	17	21	17	18	59	3	12	10	17	8	9	164	6	27	25	39	10	1	33	23
TX A&M U. System-Health Science Ctr.	6	6	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCommerce	38	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCorpus Christi	31	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
TX A&M UKingsville	38	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0
TX Christian U.	28	0	0	0	0	7	2	0	0	0	5	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
TX Southern U.	42	8	1	0	7	0	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			al resources	seo				sciences	ocean sciences						nal relations			_				En	ıgineerii	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oo	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
TX State USan Marcos Southwest TX State U.	15	3	1	1	1	3	0	1	2	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
TX Tech U.	212	39	15	16	8	23	3	8	4	5	3	38	0	3	5	29	0	1	24	0	7	3	3	4	1	5	1
TX Tech U. Health Sciences Ctr.	8	8	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX Womans U.	66	31	0	2	29	0	0	0	0	0	0	15	0	0	0	14	1	0	0	0	0	0	0	0	0	0	0
U. Dallas	2	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
U. Houston	243	25	0	21	4	51	11	17	10	6	7	37	0	7	2	28	0	0	48	0	9	6	18	2	4	6	3
U. North TX	160	6	4	2	0	35	6	18	0	2	9	36	0	0	3	29	3	1	6	0	1	0	0	0	4	0	1
U. North TX, Health Science Ctr. Ft. Worth	21	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. St. Thomas	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX Medical Branch- Galveston	40	37	0	25	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
U. TX-Arlington	139	11	1	7	3	18	3	6	0	7	2	14	0	0	7	3	0	4	54	1	0	6	25	7	4	6	5
U. TX-Austin	821	105	0	80	25	150	38	36	8	24	44	110	13	20	15	37	14	11	192	11	34	29	58	2	14	20	24
U. TX-Dallas	112	7	0	5	2	43	7	22	7	2	5	22	0	2	1	10	0	9	14	0	0	0	14	0	0	0	0
U. TX-El Paso	37	5	2	3	0	14	0	2	12	0	0	6	0	0	0	6	0	0	6	0	0	2	2	0	1	1	0
U. TX-Health Science Ctr Houston	93	85	0	54	31	5	0	0	0	3	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
U. TX-Health Science Ctr San Antonio	29	27	0	22	5	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
U. TX-Pan American	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX-San Antonio	51	10	2	8	0	7	0	4	1	0	2	2	0	0	1	1	0	0	10	0	0	1	8	0	0	0	1
U. TX-Southwestern Medical CtrDallas	80	62	0	61	1	2	1	0	0	0	1	13	0	0	0	13	0	0	3	0	0	0	0	0	0	0	3
U. the Incarnate Word	16	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
West Texas A&M U.	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utah	434	114	8	76	30	91	34	25	6	11	15	63	1	13	1	41	3	4	70	0	11	13	17	0	8	12	9
Brigham Young U.	70	6	1	5	0	15	9	4	0	1	1	23	0	0	0	21	2	0	13	0	3	1	6	0	0	3	0
U. UT	282	92	0	62	30	60	23	13	5	9	10	30	1	12	1	11	1	4	37	0	8	0	6	0	8	7	8

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			Il resources	ses				ciences	ean sciences						intemational relations			<u>-</u>				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ internation	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
UT State U.	82	16	7	9	0	16	2	8	1	1	4	10	0	1	0	9	0	0	20	0	0	12	5	0	0	2	1
Vermont Middlebury C. U. VT	80 6 74	26 0 26	6 0 6	20 0 20	0 0 0	6 0 6	4 0 4	1 0 1	0 0 0	1 0 1	0 0 0	8 0 8	0 0 0	0 0 0	0 0 0	8 0 8	0 0 0	0 0 0	10 0 10	0 0 0	0 0 0	3 0 3	3 0 3	0 0 0	2 0 2	2 0 2	0 0 0
Virginia	1,216	247	33	157	57	184	39	53	32	24	36	158	3	35	19	64	2	35	243	11	17	27	60	16	16	35	61
C. of William and Mary	56	7	2	5	0	19	0	3	8	0	8	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
George Mason U.	183	38	6	20	12	32	0	20	8	3	1	59	0	19	2	15	0	23	13	0	0	0	6	0	0	0	7
Hampton U.	9	5	0	0	5	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolk State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Old Dominion U.	74	7	0	5	2	11	0	2	4	4	1	13	0	0	5	6	0	2	20	1	0	3	7	1	0	4	4
Regent U.	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Union Theological Seminary- PSCE	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. VA	393	78	6	65	7	49	13	9	2	6	19	45	2	14	11	16	2	0	76	0	10	5	19	0	10	7	25
VA Commonwealth U.	136	69	0	40	29	7	6	1	0	0	0	18	0	0	0	14	0	4	9	0	1	0	0	0	0	1	7
VA Polytechnic Institute and State U.	344	43	19	22	2	62	20	18	10	11	3	22	0	2	1	13	0	6	124	10	6	19	28	15	5	23	18
Washington	815	231	37	137	57	139	29	26	28	26	30	139	10	15	21	49	14	30	112	4	11	11	34	4	10	15	23
Gonzaga U.	18	0	0	0	0	0	0	0	0	0	0	9	0	0	1	0	2	6	0	0	0	0	0	0	0	0	0
Seattle Pacific U.	23	0	0	0	0	0	0	0	0	0	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0
Seattle U.	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. WA	574	184	19	111	54	118	26	19	25	24	24	77	5	12	16	21	5	18	86	4	7	9	27	4	7	10	18
WA State U.	189	47	18	26	3	21	3	7	3	2	6	37	5	3	4	12	7	6	26	0	4	2	7	0	3	5	5
West Virginia	184	45	12	18	15	26	9	5	1	5	6	33	0	8	4	17	0	4	33	2	3	4	8	7	1	4	4
Marshall U.	14	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WV U.	170	43	12	16	15	26	9	5	1	5	6	33	0	8	4	17	0	4	33	2	3	4	8	7	1	4	4
Wisconsin	961	266	30	201	35	172	53	30	11	43	35	122	7	16	21	44	13	21	157	0	22	19	38	10	12	25	31
Cardinal Stritch U.	22	1	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Marquette U.	67	6	0	3	3	7	7	0	0	0	0	10	0	0	0	10	0	0	16	0	0	1	5	0	0	3	7
Medical C. WI	18	17	0	17	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2008

	_								Sci	ence																	
			al resources	seol				sciences	cean sciences						nal relations			-				En	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural	Biological/biomedical scien	Health sciences	Physical sciences	Chemistry	Computer and information	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. WI-Madison	740	226	30	172	24	146	41	28	11	34	32	82	4	14	16	21	13	14	130	0	22	14	31	10	11	19	23
U. WI-Milwaukee	114	16	0	9	7	18	5	2	0	9	2	27	3	2	5	13	0	4	11	0	0	4	2	0	1	3	1
Wyoming	66	10	3	7	0	18	8	2	7	1	0	11	1	2	0	8	0	0	11	0	0	2	6	0	0	3	0
U. WY	66	10	3	7	0	18	8	2	7	1	0	11	1	2	0	8	0	0	11	0	0	2	6	0	0	3	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

77.DZZ 100: Incitationo granting recodion a			· · <u>J</u>	<u> </u>		, .,			cience a			ng						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
All U.S. Institutions	48,802	6,578	2,248	2,649	274	909	498	4,722	338	553	627	969	2,235	2,914	1,437	556	921	0
Alabama	623	151	38	59	22	31	1	13	3	2	3	4	1	43	33	5	5	0
AL A&M U.	25	12	1	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0
AL State U.	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auburn U.	195	39	7	16	8	7	1	7	3	0	0	3	1	13	12	0	1	0
Regions U.	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuskegee U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. AL Birmingham	151	18	4	0	6	8	0	0	0	0	0	0	0	0	0	0	0	0
U. AL in Huntsville	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. AL, The	183	62	16	32	8	6	0	6	0	2	3	1	0	30	21	5	4	0
U. South AL	18	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O. South AL	10	3	U	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Alaska	29	1	0	0	0	0	1	2	1	0	0	1	0	0	0	0	0	0
U. AK	29	1	0	0	0	0	1	2	1	0	0	1	0	0	0	0	0	0
Arizona	893	151	39	80	5	25	2	99	5	11	18	14	51	67	38	13	16	0
AZ State U.	412	70	25	34	3	8	0	54	2	6	9	7	30	39	18	9	12	0
Northern AZ U.	40	28	10	17	0	1	0	1	0	0	0	1	0	0	0	0	0	0
U. AZ	441	53	4	29	2	16	2	44	3	5	9	6	21	28	20	4	4	0
Arkansas	192	41	18	14	2	4	3	14	1	2	0	9	2	10	9	0	1	0
AR State U.	9	4	4	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
U. AR	145	30	7	14	2	4	3	14	1	2	0	9	2	9	9	0	0	0
U. AR Little Rock	16	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. AR for Medical Sciences	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	5,925	515	221	178	12	32	72	630	44	45	103	139	299	197	96	43	58	0
Alliant International U./Alameda	30	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
Alliant International U./Alhambra	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./Fresno	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./San Diego	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biola U.	42 17	6	0	1	0	0	5	0	0	0	0	0	0	1	0	0	1	0
			0	-	1			11	0	0	1				0	0	0	0
CA Institute Integral Studies	30	4	0	0	0	0	3		0	0	0	0	10 0	0	0	0	0	0
CA Institute of Technology	185							0										
Claremont Graduate U.	127	29	6	10	1	3	9	35	5	4	0	8	18	4	3	0	1	0
Claremont School of Theology	3	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	1	0
Fielding Graduate Institute	103	27	19	6	1	0	1	0	0	0	0	0	0	8	6	1	1	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

							ito ana	Non-sc				g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Fuller Theological Seminary	55	0	0	0	0	0	0	22	0	0	0	0	22	6	0	0	6	0
Graduate Theological Union	23	0	0	0	0	0	0	16	0	0	0	1	15	7	0	0	7	0
Institute of Transpersonal Psychology	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
La Sierra U.	10	10	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naval Postgraduate School	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Graduate School of																		
Psychology	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pardee RAND Graduate School	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pepperdine U.	57	34	18	5	1	4	6	0	0	0	0	0	0	18	17	0	1	0
San Diego State U.	7	5	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0
Saybrook Graduate School	31	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0
Scripps Research Institute, The	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stanford U.	638	27	2	16	1	3	5	74	3	6	11	15	39	34	23	3	8	0
U. CA, Berkeley	856	26	3	13	1	3	6	96	5	8	24	24	35	29	14	0	15	0
U. CA, Davis	500	22	15	2	0	3	2	33	0	7	10	10	6	1	0	1	0	0
U. CA, Irvine	371	14	11	2	1	0	0	53	5	4	17	8	19	7	6	1	0	0
U. CA, Los Angeles	724	33	0	29	0	0	4	115	5	9	24	34	43	25	10	6	9	0
U. CA, Merced	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. CA, Riverside	224	19	2	12	0	1	4	37	7	2	4	11	13	0	0	0	0	0
U. CA, San Diego	448	18	14	1	0	2	1	25	6	0	2	5	12	2	0	2	0	0
U. CA, San Francisco	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. CA, Santa Barbara	344	22	6	7	0	2	7	58	2	3	8	12	33	8	1	7	0	0
U. CA, Santa Cruz	126	1	1	0	0	0	0	20	2	1	1	4	12	0	0	0	0	0
U. San Diego	23	13	4	5	0	1	3	0	0	0	0	0	0	0	0	0	0	0
U. San Francisco	36	35	16	11	0	4	4	0	0	0	0	0	0	0	0	0	0	0
U. Southern CA	571	145	77	49	4	5	10	32	4	1	1	7	19	36	6	22	8	0
U. the Pacific	37	25	20	4	0	1	0	1	0	0	0	0	1	0	0	0	0	0
Colorado	780	107	39	43	4	12	9	49	3	4	4	2	36	42	16	19	7	0
CO School of Mines	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO State U.	206	29	12	9	2	2	4	0	0	0	0	0	0	6	4	0	2	0
U. CO	307	12	0	4	1	6	1	39	2	3	4	2	28	24	11	13	0	0
U. CO Health Sciences Ctr.	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. CO-Colorado Springs	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. CO-Denver	30	13	11	1	0	1	0	1	0	0	0	0	1	3	1	0	2	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

TABLE 100. Modulations granking recours								Non-sc				g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. Denver	85	33	12	19	0	0	2	9	1	1	0	0	7	7	0	6	1	0
U. Northern CO	42	20	4	10	1	3	2	0	0	0	0	0	0	2	0	0	2	0
Connecticut U. CT U. New Haven Wesleyan U. Yale U.	662 283 1 12 366	24 24 0 0	4 4 0 0 0	15 15 0 0	0 0 0 0	3 3 0 0	2 2 0 0	106 12 0 3 91	4 0 0 0 4	15 5 0 0	22 4 0 0 18	30 1 0 0 29	35 2 0 3 30	26 15 1 0	17 11 1 0 5	3 3 0 0	6 1 0 0 5	0 0 0 0
Delaware U. DE Wilmington C.	227 179 48	86 38 48	57 24 33	15 8 7	3 1 2	5 4 1	6 1 5	9 9 0	2 2 0	3 3 0	0 0 0	2 2 0	2 2 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
District of Columbia American U. Catholic U. America Gallaudet U. George Washington U. Georgetown U. Howard U.	551 56 74 6 212 101 102	68 13 3 4 44 0 4	24 2 1 3 17 0 1	33 3 2 1 24 0 3	0 0 0 0 0 0	3 2 0 0 1 0	8 6 0 0 2 0 0	89 4 28 0 22 24 11	4 0 1 0 3 0 0	8 0 1 0 7 0 0	14 0 2 0 0 12 0	30 3 2 0 7 8 10	33 1 22 0 5 4 1	63 0 6 0 31 4 22	28 0 0 0 27 0	14 0 0 0 0 0 0	21 0 6 0 4 4 7	0 0 0 0 0
Florida Barry U. FL A&M U. FL Atlantic U. FL Institute of Technology FL International U. FL State U. Lynn U. Nova Southeastern U. U. Central FL U. FL U. Miami U. South FL U. West FL	2,018 36 9 83 31 122 344 22 102 207 674 135 220 33	340 25 0 24 4 16 67 8 5 52 58 5 43 33	87 15 0 15 0 4 6 7 0 20 15 0 5 0	139 4 0 5 1 8 21 0 1 28 26 4 26 15	8 0 0 0 0 3 2 0 0 0 2 0	71 0 0 3 3 1 36 1 0 1 14 0	35 6 0 1 0 0 2 0 4 3 1 1 0 0	128 0 0 5 0 7 42 0 1 3 29 35 6	8 0 0 1 0 0 1 0 0 0 3 0 3	10 0 0 0 0 0 1 0 0 0 0 3 3 3	15 0 0 0 0 3 3 0 0 0 7 2 0	22 0 0 1 0 4 10 0 0 0 4 3 0	73 0 0 3 0 0 27 0 1 3 12 27 0 0	195 2 0 17 0 17 48 10 45 11 30 2 13 0	119 2 0 12 0 8 21 10 44 6 10 0 6	30 0 0 0 0 0 10 0 0 11 10 2 7	46 0 0 5 0 9 17 0 1 4 10 0 0	0 0 0 0 0 0 0 0 0
Georgia Clark Atlanta U.	1,356 29	216 14	67 9	78 1	18 0	43 0	10 4	117 3	13 0	14 0	14 0	23 0	53 3	78 6	47 0	6	25 6	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

								Non-sc	ience a	and eng	jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Emory U.	202	6	0	3	0	2	1	64	5	5	7	10	37	11	9	0	2	0
GA Institute of Technology	451	0	0	0	0	0	0	1	0	0	0	1	0	12	10	0	2	0
GA Southern U.	69	69	50	18	0	1	0	0	0	0	0	0	0	0	0	0	0	0
GA State U.	195	42	2	22	6	10	2	18	5	3	0	7	3	18	17	1	0	0
Medical C. GA	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercer U. Southern School of																		
Pharmacy	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morehouse School of Medicine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. GA	383	85	6	34	12	30	3	31	3	6	7	5	10	31	11	5	15	0
												40						
Hawaii	193	19	1	15	1	1	1 1	23	0	3	3	10	7	11	8	1	2	0
U. HI Manoa	193	19	1	15	1	1	1	23	0	3	3	10	7	11	8	1	2	0
Idaho	140	54	13	21	10	5	5	0	0	0	0	0	0	0	0	0	0	0
Boise State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID State U.	38	10	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. ID	101	44	11	13	10	5	5	0	0	0	0	0	0	0	0	0	0	0
Illinois	2,362	295	100	120	19	36	20	289	12	37	20	74	146	176	66	40	70	0
Benedictine U.	6	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0
Chicago Theological Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
DePaul U.	20	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0
Rosalind Franklin U. of Med & Sci.	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garrett Evangelical Theological																		
Seminary	2	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0
IL Institute of Technology	67	2	0	0	0	2	0	0	0	0	0	0	0	6	1	2	3	0
IL State U.	56	29	15	6	0	7	1	13	2	7	0	0	4	0	0	0	0	0
Institute for Clinical Social Work	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0
Loyola U. Chicago	124	41	15	26	0	0	0	21	1	5	0	2	13	8	0	0	8	0
Lutheran School of Theology Chicago	9	0	0	0	0	0	0	5	0	0	0	1	4	4	0	0	4	0
National-Louis U.	43	43	36	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Northern IL U.	99	50	10	20	15	3	2	6	1	0	0	3	2	1	0	0	1	0
Northwestern U.	353	7	0	1	0	6	0	36	0	1	2	11	22	31	19	10	2	0
Roosevelt U.	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rush U.	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern IL U.	140	36	11	10	1	9	5	17	1	5	0	2	9	14	5	9	0	0
U. Chicago, The	389	1	0	0	0	1	0	124	2	6	10	47	59	31	17	4	10	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

TABLE 400. Institutions granting research to			a 011g	•••••	,	2) 010		Non-so				g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. IL-Chicago	280	20	2	16	0	1	1	20	2	4	2	4	8	14	4	1	9	0
U. IL-Urbana-Champaign	735	63	8	37	1	6	11	40	3	9	6	4	18	54	14	14	26	0
Indiana Ball State U. IN State U. IN U. Purdue U. U. Notre Dame	1,284 42 66 398 597 181	172 19 35 79 39 0	34 2 16 9 7 0	94 9 18 47 20 0	7 6 0 1 0	27 1 0 17 9	10 1 1 5 3	150 2 0 75 40 33	6 0 0 1 4	32 1 0 10 12 9	28 0 0 23 4	30 0 0 17 6 7	54 1 0 24 14	92 0 7 45 34 6	43 0 7 18 18	23 0 0 13 10 0	26 0 0 14 6	0 0 0 0 0
lowa	694	99	23	48	2	24	2	54	10	4	3	10	27	47	22	13	12	0
Drake U.	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IA State U.	310	47	18	14	0	15	0	3	0	0	0	3	0	13	5	0	8	0
Maharishi U. Management	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Ambrose U.	6	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0
U. IA	358	36	1	23	1	9	2	51	10	4	3	7	27	25	11	13	1	0
U. Northern IA	16	13	2	10	1	0	0	0	0	0	0	0	0	3	0	0	3	0
Kansas	443	99	24	56	5	11	3	43	3	6	6	8	20	21	8	6	7	0
KS State U.	155	30	5	19	5	1	0	3	0	1	0	2	0	7	4	0	3	0
U. KS	255	63	14	37	0	10	2	40	3	5	6	6	20	14	4	6	4	0
Wichita State U.	33	6	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Kentucky Asbury Theological Seminary Southern Baptist Theological	449 8	61 0	23	29 0	0	7 0	2	46 5	3	6 0	3	3 0	31 5	39 3	8	3	28 3	0
Seminary, The	38	6	5	0	0	1	0	16	0	0	0	0	16	15	1	0	14	0
U. KY	262	27	1	20	0	5	1	18	3	5	3	3	4	12	6	3	3	0
U. Louisville	141	28	17	9	0	1	1	7	0	1	0	0	6	9	1	0	8	0
Louisiana	541	51	18	24	2	6	1	56	8	6	12	9	21	51	24	4	23	0
Grambling State U.	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA State U. and A&M C. LA State U. Health Sciences Ctr.	216	26	5	14	1	5	1	17	4	3	3	1	6	18	7	4	7	0
New Orleans LA State U. Health Sciences	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ctr. Shreveport	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	32	2	2	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

								Non-sc	ience a	nd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
New Orleans Baptist Theological																		
Seminary	17	1	0	0	1	0	0	7	0	0	0	0	7	4	0	0	4	0
Southern U. and A&M C.	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tulane U.	120	0	0	0	0	0	0	16	2	0	5	8	1	20	8	0	12	0
U. LA Lafayette	39	0	0	0	0	0	0	16	2	3	4	0	7	0	0	0	0	0
U. LA Monroe	15	3	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
U. New Orleans	61	17	8	9	0	0	0	0	0	0	0	0	0	5	5	0	0	0
Maine	51	4	1	3	0	0	0	3	0	0	0	3	0	0	0	0	0	0
U. ME	50	4	1	3	0	0	0	3	0	0	0	3	0	0	0	0	0	0
U. Southern ME	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maryland	1,302	119	34	55	3	19	8	99	2	9	16	26	46	51	19	12	20	0
Baltimore Hebrew U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowie State U.	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johns Hopkins U.	427	0	0	0	0	0	0	48	1	2	8	19	18	2	0	0	2	0
Loyola C. in MD	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Morgan State U.	42	35	17	11	0	3	4	0	0	0	0	0	0	2	2	0	0	0
Towson U.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U.																		
the Health Sciences	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MD	614	74	11	43	3	14	3	48	1	7	6	7	27	31	14	12	5	0
U. MD Baltimore County	93	4	0	1	0	2	1	3	0	0	2	0	1	0	0	0	0	0
U. MD Eastern Shore	8	1	1	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0
U. MD School of Medicine	81	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	0
Massachusetts	2,591	160	44	73	8	19	16	302	12	28	35	74	153	125	58	10	57	0
American International C.	6	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boston C.	144	37	12	23	0	2	0	19	1	3	3	4	8	20	3	0	17	0
Boston U.	407	25	5	9	2	7	2	73	1	8	6	4	54	16	9	0	7	0
Brandeis U.	83	0	0	0	0	0	0	19	2	2	1	9	5	4	3	0	1	0
Clark U.	34	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0
Harvard U.	660	29	10	7	1	4	7	138	4	8	21	50	55	28	11	1	16	0
MA Institute of Technology	599	2	0	1	0	0	1	13	0	0	0	2	11	24	18	2	4	0
New England Conservatory of Music	5	0	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0
Northeastern U.	101	0	0	0	0	0	0	4	0	1	0	2	1	6	1	0	5	0
Simmons C.	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

TABLE 100. Modulations granting recourse.			· · J	<u> </u>	,	.,		Non-sc				g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Smith C.	6	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0
Springfield C.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suffolk U.	15	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Tufts U.	106	0	0	0	0	0	0	14	4	4	0	1	5	2	2	0	0	0
U. MA Amherst	288	44	7	23	4	6	4	14	0	2	4	2	6	18	10	7	1	0
U. MA Dartmouth	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MA Harbor campus	26	9	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MA Lowell	48	10	7	1	0	0	2	2	0	0	0	0	2	0	0	0	0	0
U. MA Worcester	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Michigan	1,599	207	80	74	10	29	14	125	11	18	11	28	57	102	43	28	31	0
Andrews U.	25	17	14	3	0	0	0	5	0	0	0	0	5	1	0	0	1	0
Central MI U.	17	6	6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Eastern MI U.	15	10	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MI State U.	436	66	15	26	4	13	8	34	4	7	5	5	13	50	25	15	10	0
MI Technological U.	54	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0
Oakland U.	33	13	5	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0
U. Detroit Mercy	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MI	716	29	1	13	4	7	4	63	4	9	2	19	29	33	17	3	13	0
Wayne State U.	192	33	9	23	0	0	1	5	1	0	2	1	1	10	0	10	0	0
Western MI U.	105	33	21	8	0	3	1	12	2	2	2	3	3	7	1	0	6	0
Minnesota	960	213	102	64	11	22	14	70	5	5	15	10	35	95	64	8	23	0
Hamline U.	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luther Seminary	6	0	0	0	0	0	0	3	0	0	0	0	3	3	0	0	3	0
Mayo Graduate School	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Mary's U. MN	21	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MN	690	82	21	41	4	11	5	67	5	5	15	10	32	55	30	7	18	0
U. St. Thomas	12	11	10	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0
Walden U.	203	99	52	21	7	10	9	0	0	0	0	0	0	36	33	1	2	0
Mississippi	402	146	60	53	9	15	9	24	7	2	0	6	9	45	25	9	11	0
Delta State U.	5	4	3	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0
Jackson State U.	56	35	12	20	2	0	1	0	0	0	0	0	0	10	2	0	8	0
MS State U.	117	42	19	15	2	1	5	1	0	0	0	1	0	12	9	0	3	0
U. MS	80	20	6	9	1	3	1	10	5	1	0	3	1	10	10	0	0	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

								Non-sc	ience a	ind eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. MS Medical Ctr. U. Southern MS	18 126	0 45	0 20	0 9	0 4	0 10	0	0 13	0 2	0	0	0	0	0 12	0	0 9	0	0
O. Southern MS	120	40	20	9	4	10	2	13	2	'	U	2	0	12	3	9	U	U
Missouri	880	162	92	41	7	19	3	78	6	8	13	5	46	53	18	20	15	0
Concordia Seminary	7	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0
MO U. of Science and Technology	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Louis U.	133	51	41	10	0	0	0	20	2	0	0	3	15	2	2	0	0	0
U. MO-Columbia	327	80	43	18	1	17	1	24	2	3	2	1	16	34	7	20	7	0
U. MO-Kansas City	46	4	1	1	0	0	2	2	0	1	0	0	1	0	0	0	0	0
U. MO-St. Louis	59	26	7	12	5	2	0	0	0	0	0	0	0	1	1	0	0	0
Washington U.	245	1	0	0	1	0	0	25	2	4	11	1	7	16	8	0	8	0
Montana	98	21	9	6	1	4	1	0	0	0	0	0	0	1	0	0	1	0
MT State U.	43	7	1	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0
U. MT	55	14	8	3	0	2	1	0	0	0	0	0	0	1	0	0	1	0
Nebraska	296	70	35	25	1	7	2	24	6	4	4	4	6	14	7	2	5	0
Creighton U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE Medical Ctr.	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE-Lincoln	240	64	30	24	1	7	2	24	6	4	4	4	6	10	6	2	2	0
U. NE-Omaha	21	6	5	1	0	0	0	0	0	0	0	0	0	4	1	0	3	0
Nevada	151	33	11	15	1	6	0	13	3	1	1	2	6	5	2	0	3	0
U. NV, Las Vegas	71	24	10	8	1	5	0	6	1	1	0	1	3	3	2	0	1	0
U. NV, Reno	80	9	1	7	0	1	0	7	2	0	1	1	3	2	0	0	2	0
New Hampshire	140	5	0	2	0	2	1	8	1	1	0	2	4	2	2	0	0	0
Antioch New England Graduate School	7	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Dartmouth C.	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern NH U.	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
U. NH	48	5	0	2	0	2	1	5	1	1	0	2	1	0	0	0	0	0
New Jersey	1,023	82	52	19	1	9	1	166	13	16	22	35	80	64	25	9	30	0
Drew U.	20	0	0	0	0	0	0	16	3	5	0	0	8	4	0	0	4	0
Fairleigh Dickinson U.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montclair State U.	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
NJ Institute Technology	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Princeton Theological Seminary	20	1	0	1	0	0	0	9	0	0	0	2	7	10	0	0	10	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

							ite and	Non-sc				g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Princeton U.	307	0	0	0	0	0	0	76	2	3	12	20	39	5	2	0	3	0
Rutgers U.	389	26	6	12	1	6	1	65	8	8	10	13	26	16	0	9	7	0
Rutgers State UNewark	53	0	0	0	0	0	0	0	0	0	0	0	0	24	18	0	6	0
Seton Hall U.	66	53	46	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Stevens Institute of Technology	25	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0
U. Medicine & Dentistry of NJ	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
o. Modeline a Bention y of No	00	Ū	0	•	U	O	Ü	O	O	Ü	Ü	O	O	O	0	O	O	· ·
New Mexico	264	65	18	25	4	13	5	16	1	0	1	5	9	11	1	7	3	0
NM Institute of Mining & Technology	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NM State U.	82	28	14	12	0	2	0	1	0	0	0	0	1	1	1	0	0	0
U. NM	167	37	4	13	4	11	5	15	1	0	1	5	8	10	0	7	3	0
New York	3,986	385	85	131	30	99	40	526	45	62	59	91	269	255	110	37	108	0
Adelphi U.	20	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0
Albany Medical C.	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfred U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clarkson U.	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Columbia U.	461	0	0	0	0	0	0	97	2	10	19	30	36	42	21	3	18	0
Cornell U.	475	2	0	0	1	0	1	56	7	8	11	12	18	15	11	3	1	0
Cornell U. Weill Med. College	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fordham U.	112	29	16	7	3	2	1	21	3	6	0	3	9	13	0	0	13	0
Graduate School & U. Ctr., CUNY	358	11	0	6	1	2	2	86	7	17	8	10	44	16	9	0	7	0
Hofstra U.	21	7	2	1	1	3	0	0	0	0	0	0	0	1	1	0	0	0
Jewish Theological Seminary																		
of America	3	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0
Juilliard School, The	8	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0
Long Island UBrooklyn campus	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Island UC. W. Post campus	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New School, The	62	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0
NY Medical C.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY U.	409	41	3	15	2	15	6	97	3	5	12	17	60	60	20	13	27	0
Polytechnic U.	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	158	0	0	0	0	0	0	3	0	0	0	2	1	13	9	4	0	0
Rochester Institute of Technology	19	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0
Rockefeller U., The	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reconcioner o., The	20	J	0	U	•	0	•	J	0	0	0	0	0	0	0	J	0	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

Institution All fields Al
and Forestry 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SUNY Health Science Ctr. Brooklyn 7 0
SUNY State C. of Optometry 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SUNY Stony Brook U. SUNY U. Albany 148 23 31 30 00 00 00 00 00 00 32 31 24 518 40 00 40 30 120 310 301 301 301 301 301
SUNY U. Albany 148 23 3 13 0 5 2 10 4 0 2 2 2 15 3 0 12 0 SUNY U. Buffalo 329 45 9 25 2 8 1 48 13 5 3 1 26 23 13 5 5 0 SUNY U. Buffalo 329 45 9 25 2 8 1 48 13 5 3 1 26 23 13 5 5 0 SUNY U. Buffalo 329 45 9 25 2 8 1 48 13 5 3 1 26 23 13 5 5 0 SUNY U. Buffalo 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SUNY U. Buffalo 329 45 9 25 2 8 1 48 13 5 3 1 26 23 13 5 5 0 SUNY Upstate Medical U. 20 0
SUNY Upstate Medical U. 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
St. John's UQueens
Syracuse U. 157 12 0 8 0 4 0 11 0 1 9 23 12 8 3 0 Teachers C., Columbia U. 216 154 16 41 18 56 23 3 0 <td< td=""></td<>
Teachers C., Columbia U. Union Theological Seminary 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Union Theological Seminary 4 0 </td
U. Rochester 245 32 13 12 1 3 3 14 1 4 0 2 7 5 5 0
Yeshiva U. 75 1 1 0 0 0 1 0 <th< td=""></th<>
North Carolina 1,449 190 67 85 3 22 13 138 12 13 22 32 59 65 31 10 24 00 Appalachian State U. 18 18 11 3 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Appalachian State U. 18 18 11 3 0 0 4 0
Duke U. 314 0 0 0 0 0 0 37 3 4 7 8 15 17 14 0 3 0 East Carolina U. 22 20 19 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
East Carolina U. 22 20 19 1 0
NC A&T State U. 11 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 NC State U. 327 35 5 21 1 8 0 0 0 0 0 0 0 9 0 0 9 0 Southeastern Baptist Theological
NC State U. 327 35 5 21 1 8 0 0 0 0 0 0 9 0 0 9 0 Southeastern Baptist Theological
Southeastern Baptist Theological
Seminary 16 0 0 0 0 0 13 0 0 0 1 12 3 0 0 3 0
U. NC Chapel Hill 561 51 15 18 2 8 8 77 5 8 15 23 26 32 14 10 8 0
U. NC Charlotte 43 16 4 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
U. NC Greensboro 80 49 12 30 0 6 1 11 4 1 0 0 6 3 2 0 1 0
U. NC Wilmington 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Wake Forest U. 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
North Dakota 152 40 16 17 3 1 3 2 0 1 0 0 1 13 0 13 0 0
ND State U. 79 10 1 6 1 0 2 0 0 0 0 0 8 0 8 0 0
U.ND 73 30 15 11 2 1 1 2 0 1 0 0 1 5 0 5 0 0
Ohio 1,921 277 62 121 2 58 34 156 7 23 29 27 70 104 51 30 23 0
Air Force Institute of Technology 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bowling Green State U. 86 19 12 7 0 0 0 18 0 2 0 1 15 11 0 11 0 0
Case Western Reserve U. 205 2 0 0 0 2 0 5 2 1 0 0 2 20 13 0 7 0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

77.BZE 100: Inclination granting recourse a								Non-sc				g						
Institution		Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Cleveland State U.	44	10	5	2	0	0	3	0	0	0	0	0	0	8	3	0	5	0
Hebrew Union C.	5	0	0	0	0	0	0	5	0	0	1	2	2	0	0	0	0	0
Kent State U.	145	45	4	33	1	7	0	8	1	2	0	1	4	12	10	2	0	0
Miami U.	50	10	9	1	0	0	0	5	0	3	0	0	2	0	0	0	0	0
OH State U., The	719	81	3	17	1	38	22	70	1	8	22	14	25	32	14	11	7	0
OH U.	108	39	3	31	0	3	2	13	2	0	0	4	7	8	2	6	0	0
U. Akron	102	11	1	9	0	1	0	1	0	0	0	1	0	3	0	0	3	0
U. Cincinnati	278	32	9	13	0	3	7	29	1	7	6	3	12	7	7	0	0	0
U. Dayton	21	4	4	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0
U. Toledo	94	22	10	8	0	4	0	1	0	0	0	1	0	2	2	0	0	0
Wright State U.	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Youngstown State U.	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	360	70	14	30	2	19	5	29	0	6	1	5	17	29	23	3	3	0
OK State U.	143	35	6	18	2	5	4	9	0	4	0	3	2	16	13	0	3	0
U. OK	199	35	8	12	0	14	1	19	0	1	1	2	15	13	10	3	0	0
U. Tulsa	18	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Oregon	413	67	37	15	0	12	3	24	2	4	5	1	12	25	4	9	12	0
OR Health & Science U.	50	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
OR State U.	172	29	17	4	0	5	3	0	0	0	0	0	0	2	0	1	1	0
Portland State U.	45	9	1	5	0	3	0	0	0	0	0	0	0	11	0	0	11	0
U. OR	146	28	19	6	0	3	0	24	2	4	5	1	12	12	4	8	0	0
Pennsylvania	2,463	352	99	162	16	51	24	247	14	43	30	38	122	177	89	38	50	0
Bryn Mawr C.	18	1	0	0	0	1	0	6	0	1	0	0	5	2	0	0	2	0
Carnegie Mellon U.	257	0	0	0	0	0	0	4	0	0	1	0	3	18	15	1	2	0
Drexel U.	119	1	0	1	0	0	0	0	0	0	0	0	0	7	7	0	0	0
Duquesne U.	39	0	0	0	0	0	0	10	0	2	0	0	8	12	0	4	8	0
Gannon U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indiana U. PA	70	35	12	20	0	3	0	23	5	15	0	0	3	1	1	0	0	0
Lehigh U.	98	5	2	2	0	0	1	4	1	2	0	0	1	0	0	0	0	0
Lutheran Theological Seminary at	,		•	•							•	•	4	•	•	•		•
Philadelphia	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Marywood U.	8	4	4	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
PA State U., The	658	106	17	59	15	11	4	30	2	6	8	4	10	38	16	16	6	0
Temple U.	239	43	9	19	0	13	2	39	1	2	6	7	23	27	21	6	0	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

								Non-sc	ience a	nd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Thomas Jefferson U.	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PA	465	80	23	40	0	5	12	81	3	7	8	22	41	32	14	8	10	0
U. Pittsburgh	405	44	12	16	1	13	2	45	2	8	7	5	23	33	15	3	15	0
U. the Sciences in Philadelphia	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villanova U.	6	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Westminster Theological Seminary	5	0	0	0	0	0	0	1	0	0	0	0	1	4	0	0	4	0
Widener U.	43	33	20	5	0	5	3	0	0	0	0	0	0	2	0	0	2	0
Puerto Rico	236	72	19	41	0	1	11	12	0	1	2	3	6	7	2	1	4	0
Carlos Albizu U. San Juan campus	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inter American U. PR-Metro campus	51	51	18	32	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Ponce School of Medicine	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. PR-Ponce	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Mayaguez	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Medical Sciences campus	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Rio Piedras	106	21	1	9	0	0	11	12	0	1	2	3	6	7	2	1	4	0
Rhode Island	278	5	1	2	0	1	1	76	3	8	10	15	40	3	3	0	0	0
Brown U.	205	1	0	1	0	0	0	65	2	4	10	14	35	0	0	0	0	0
Salve Regina U.	5	0	0	0	0	0	0	5	0	0	0	1	4	0	0	0	0	0
U. RI	68	4	1	1	0	1	1	6	1	4	0	0	1	3	3	0	0	0
South Carolina	413	54	16	22	0	7	9	18	7	4	0	3	4	16	6	1	9	0
Clemson U.	145	10	5	2	0	1	2	0	0	0	0	0	0	6	2	1	3	0
Medical U. SC	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SC State U.	11	11	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
U. SC	213	33	6	20	0	6	1	18	7	4	0	3	4	10	4	0	6	0
South Dakota	83	44	22	20	1	1	0	3	0	1	0	0	2	0	0	0	0	0
SD School of Mines & Technology	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD State U.	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. SD	61	44	22	20	1	1	0	3	0	1	0	0	2	0	0	0	0	0
Tennessee	789	157	69	61	12	7	8	72	3	13	10	9	37	38	24	3	11	0
East TN State U.	45	34	34	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Meharry Medical C.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theological																		
Seminary	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

								Non-so	ience a	nd eng	jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Middle TN State U.	15	1	0	0	0	1	0	7	0	5	0	2	0	0	0	0	0	0
TN State U.	49	34	18	15	1	0	0	0	0	0	0	0	0	2	0	0	2	0
TN Technological U.	23	7	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0
U. Memphis	100	17	4	10	2	1	0	19	1	0	0	1	17	11	10	1	0	0
U. TN Health Science Ctr.	42	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
U. TN, Chattanooga	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TN, Knoxville	242	37	5	20	6	3	3	13	1	4	4	3	1	21	12	2	7	0
Vanderbilt U.	266	26	8	11	3	1	3	32	1	4	6	3	18	3	2	0	1	0
Texas	3,384	534	180	234	15	79	26	257	18	29	24	54	132	256	149	39	68	0
Baylor C. of Medicine	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baylor U.	43	8	2	6	0	0	0	11	1	2	0	0	8	0	0	0	0	0
Dallas Theological Seminary	8	0	0	0	0	0	0	6	0	0	0	0	6	2	0	0	2	0
Lamar U.	31	26	19	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Prairie View A&M	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice U.	177	0	0	0	0	0	0	14	2	3	1	6	2	0	0	0	0	0
St. Mary's U.	14	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sam Houston State U.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Methodist U.	42	0	0	0	0	0	0	6	0	0	0	4	2	0	0	0	0	0
Southwestern Baptist Theological																		
Seminary	22	1	0	1	0	0	0	11	0	0	0	0	11	9	0	0	9	0
Stephen F. Austin State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M U.	594	82	26	27	2	26	1	12	2	2	0	5	3	41	23	7	11	0
TX A&M U. System-Health Science Ctr.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCommerce	38	29	14	13	1	0	1	4	1	1	0	0	2	0	0	0	0	0
TX A&M UCorpus Christi	31	30	16	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UKingsville	38	33	25	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0
TX Christian U.	28	1	0	0	0	1	0	12	1	2	0	6	3	0	0	0	0	0
TX Southern U.	42	29	8	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX State USan Marcos Southwest TX																		
State U.	15	5	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0
TX Tech U.	212	41	4	32	0	4	1	26	0	4	4	4	14	21	13	6	2	0
TX Tech U. Health Sciences Ctr.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX Womans U.	66	9	0	1	0	8	0	7	0	0	0	0	7	4	0	0	4	0
U. Dallas	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. Houston	243	46	5	30	1	9	1	22	1	2	2	6	11	14	10	0	4	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

						•		Non-sc	ience a	ınd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. North TX	160	51	10	23	7	7	4	6	0	4	0	0	2	20	15	1	4	0
U. North TX, Health Science Ctr.																		
Ft. Worth	21	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
U. St. Thomas	3	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
U. TX Medical Branch-Galveston	40	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0
U. TX-Arlington	139	0	0	0	0	0	0	11	5	1	0	5	0	31	18	0	13	0
U. TX-Austin	821	102	26	54	3	18	1	92	2	6	17	16	51	70	31	24	15	0
U. TX-Dallas	112	1	0	0	0	0	1	10	2	2	0	0	6	15	10	1	4	0
U. TX-El Paso	37	4	3	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0
U. TX-Health Science CtrHouston	93	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
U. TX-Health Science CtrSan Antonio	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX-Pan American	24	7	7	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0
U. TX-San Antonio	51	17	13	3	0	0	1	1	1	0	0	0	0	4	4	0	0	0
U. TX-Southwestern Medical CtrDallas	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. the Incarnate Word	16	8	2	2	0	0	4	0	0	0	0	0	0	6	6	0	0	0
West Texas A&M U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utah	434	50	10	15	2	8	15	18	1	2	0	3	12	28	12	5	11	0
Brigham Young U.	70	12	5	5	0	2	0	0	0	0	0	0	0	1	0	0	1	0
U. UT	282	20	5	8	1	5	1	18	1	2	0	3	12	25	10	5	10	0
UT State U.	82	18	0	2	1	1	14	0	0	0	0	0	0	2	2	0	0	0
Vermont	80	22	21	0	0	0	1	6	0	0	6	0	0	2	1	0	1	0
Middlebury C.	6	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0
U. VT	74	22	21	0	0	0	1	0	0	0	0	0	0	2	1	0	1	0
Virginia	1,216	206	67	89	6	24	20	104	8	20	16	27	33	74	34	14	26	0
C. of William and Mary	56	22	12	9	0	0	1	6	0	0	0	5	1	0	0	0	0	0
George Mason U.	183	34	3	23	3	3	2	7	2	0	0	2	3	0	0	0	0	0
Hampton U.	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolk State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Old Dominion U.	74	9	5	0	0	0	4	0	0	0	0	0	0	14	11	0	3	0
Regent U.	15	0	0	0	0	0	0	2	0	0	0	2	0	13	0	13	0	0
Union Theological Seminary-PSCE	5	1	0	1	0	0	0	4	0	0	0	0	4	0	0	0	0	0
U. VA	393	63	15	28	1	16	3	80	6	20	16	16	22	2	0	1	1	0
VA Commonwealth U.	136	22	6	7	1	1	7	1	0	0	0	0	1	10	3	0	7	0
VA Polytechnic Institute and State U.	344	55	26	21	1	4	3	4	0	0	0	2	2	34	20	0	14	0

TABLE 45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2008

			_			-		Non-so	ience a	and eng	jineerin	ıg						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Washington	815	87	46	25	1	4	11	63	10	8	6	11	28	44	27	11	6	0
Gonzaga U.	18	5	4	1	0	0	0	2	0	0	0	0	2	2	2	0	0	0
Seattle Pacific U.	23	7	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Seattle U.	11	11	8	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
U. WA	574	32	14	16	0	1	1	50	8	8	6	7	21	27	13	8	6	0
WA State U.	189	32	15	7	1	1	8	11	2	0	0	4	5	15	12	3	0	0
West Virginia	184	35	9	24	0	2	0	10	1	0	0	3	6	2	1	1	0	0
Marshall U.	14	12	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WV U.	170	23	4	17	0	2	0	10	1	0	0	3	6	2	1	1	0	0
Wisconsin	961	78	32	34	3	3	6	116	10	15	21	27	43	50	24	13	13	0
Cardinal Stritch U.	22	16	12	1	1	0	2	0	0	0	0	0	0	2	2	0	0	0
Marquette U.	67	7	4	1	0	1	1	20	2	4	0	1	13	1	0	1	0	0
Medical C. WI	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. WI-Madison	740	41	14	22	1	2	2	81	7	9	19	26	20	34	15	12	7	0
U. WI-Milwaukee	114	14	2	10	1	0	1	15	1	2	2	0	10	13	7	0	6	0
Wyoming	66	16	8	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0
U. WY	66	16	8	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0

TABLE 46. Top 50 doctorate-granting institutions: 2008

TABLE 46. Top 50 doctorate-granting institution	1S: 2008
	Doctorate
Rank Institution	recipients
1 U. CA, Berkeley	856
2 U. TX-Austin	821
3 U. WI-Madison	740
4 U. IL-Urbana-Champaign	735
5 U. CA, Los Angeles	724
6 OH State U., The	719
7 U. MI	716
8 U. MN	690
9 U. FL	674
10 Harvard U.	660
11 PA State U., The	658
12 Stanford U.	638
13 U. MD	614
14 MA Institute of Technology	599
15 Purdue U.	597
16 TX A&M U.	594
17 U. WA	574
18 U. Southern CA	571
19 U. NC Chapel Hill	561
20 U. CA, Davis	500
21 Cornell U.	475
22 U. PA	465
23 Columbia U.	461
24 GA Institute of Technology	451
25 U. CA, San Diego	448
26 U. AZ	441
27 MI State U.	436
28 Johns Hopkins U.	427
29 AZ State U.	412
30 NY U.	409
31 Boston U.	407
32 U. Pittsburgh	405
33 IN U.	398
34 U. VA	393
35 Rutgers U.	389
35 U. Chicago, The	389
37 U. GA	383
38 U. CA, Irvine	371
39 Yale U.	366
40 Graduate School & U. Ctr., CUNY	358
40 U. IA	358
42 Northwestern U.	353
44 FL State U.	344
44 U. CA, Santa Barbara	344
44 VA Polytechnic Institute and State U.	344
46 SUNY U. Buffalo	329
47 NC State U.	327
47 U. MO-Columbia	327
49 Duke U.	314
50 IA State U.	310
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TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
All fields	42,638	41,097	41,366	40,738	40,025	40,758	42,118	43,381	45,615	48,112	48,802
Life sciences	8,612	8,204	8,624	8,368	8,479	8,508	8,816	9,310	9,700	10,628	11,088
Agricultural sciences/natural resources	1,267	1,216	1,180	1,134	1,129	1,179	1,155	1,160	1,146	1,320	1,201
Agricultural and horticultural plant breeding	69	44	68	37	59	50	36	35	41	37	28
Agricultural animal breeding	18	21	22	16	14	21	13	14	12	15	3
Agricultural business and management	2	2	5	3	1	1	na	na	na	na	na
Agricultural economics	156	149	138	154	119	118	110	122	113	186	111
Agronomy and crop science	97	106	69	75	74	55	63	79	56	72	68
Animal nutrition	45	47	45	45	49	41	47	51	46	55	41
Animal science, other	60	70	73	71	70	88	75	71	72	63	77
Dairy science	10	12	9	2	7	18	na	na	na	na	na
Environmental science	72	99	95	119	113	135	130	129	132	159	183
Fishing and fisheries sciences/management	30	38	43	44	53	47	38	34	52	42	52
Food science	13	7	10	16	7	11	94	93	97	122	96
Food science and technology, other	153	137	142	130	129	157	74	48	45	33	41
Forest engineering	2	1	3	0	3	3	na	na	na	na	na
Forest sciences and biology	20	15	22	27	19	16	36	29	32	42	32
Forest/resources management	27	17	13	13	15	18	26	40	37	48	44
Forestry and related science, other	69	49	54	48	57	47	34	24	28	32	17
Horticulture science	60	66	55	37	46	54	46	49	54	49	50
Natural resources/conservation	25	25	19	32	27	48	45	64	60	72	78
Plant pathology/phytopathology	66	66	63	52	53	48	56	71	63	69	59
Animal science, poultry (or avian)	11	8	9	11	10	18	21	14	15	21	18
Plant sciences, other	37	38	29	26	27	29	34	31	43	46	39
Soil chemistry/microbiology	27	29	26	23	29	24	21	24	20	23	25
Soil sciences, other	74	67	64	56	55	50	52	52	48	57	67
Wildlife/range management	56	44	56	41	37	46	42	44	51	40	55
Wood science and pulp/paper technology	25	21	11	20	29	19	19	15	12	24	2
Agriculture, general	8	8	10	2	4	2	6	10	6	4	10
Agricultural science, other	35	30	27	34	23	15	37	17	11	9	5
Biological/biomedical sciences	5,846	5,581	5,853	5,694	5,695	5,696	5,942	6,366	6,649	7,179	7,793
Anatomy	35	33	39	29	20	33	13	23	21	20	25
Bacteriology	13	13	15	17	12	6	15	13	10	22	22
Biochemistry	800	759	776	729	781	772	703	693	784	863	895
Bioinformatics	na	79	148								
Biomedical sciences	182	176	155	155	220	181	183	249	278	293	267
Biometrics and biostatistics	75	76	92	90	81	84	100	129	106	121	121
Biophysics (Biology)	166	173	164	162	151	161	130	144	183	177	166
Biotechnology	12	19	14	9	13	24	26	23	32	28	32
Botany/plant biology	113	67	92	75	84	80	135	87	92	112	105
Cancer biology	na	91	291								
Cell/cellular biology and histology	300	281	337	315	302	301	292	316	337	370	378
Developmental biology/embryology	127	108	112	107	93	126	141	162	149	173	185

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Ecology	293	273	297	339	311	347	366	411	391	461	439
Endocrinology	30	19	20	18	14	21	22	29	18	24	22
Entomology	138	114	137	90	113	111	108	103	117	93	119
Evolutionary biology	na	39	178								
Genetics/Genomics, Human and Animal	197	216	227	199	226	226	258	285	286	374	413
Pathology, Human and Animal	90	120	106	117	115	101	98	93	80	104	10
Pharmacology, Human and Animal	255	254	267	257	268	275	288	315	328	287	280
Physiology, Human and Animal	258	244	241	216	208	215	208	208	221	238	24
Immunology	246	223	239	265	278	261	347	342	390	395	42
Microbiology	383	383	382	394	382	363	393	432	493	524	53
Molecular biology	736	716	706	711	623	615	725	724	780	701	78
Neurosciences	413	431	495	486	491	474	584	690	741	763	88
Nutrition sciences	139	102	150	135	142	127	131	163	148	163	17
Parasitology	15	13	19	22	17	15	20	21	27	17	2
Plant genetics	40	31	35	31	57	38	55	50	62	48	4
Plant pathology/phytopathology	18	36	25	31	24	27	25	31	26	21	2
Plant physiology	61	54	39	45	43	32	24	38	40	32	2
Toxicology	155	114	123	133	122	122	105	102	101	115	13
Zoology, other	111	126	133	103	123	127	94	103	101	80	6
Biology/biomedical sciences, general	217	182	199	193	184	194	188	189	187	245	15
Biology/biomedical sciences, other	228	225	217	221	197	237	165	198	120	106	8
Health sciences	1,499	1,407	1,591	1,540	1,655	1,633	1,719	1,784	1,905	2,129	2,09
Environmental health	54	69	52	56	49	53	56	42	75	57	6
Environmental toxicology	na	na	na	na	na	na	28	42	43	35	4
Epidemiology	165	179	191	168	198	231	217	229	229	289	30
Health systems/services administration	62	62	59	51	55	57	66	70	71	103	7
Kinesiology/exercise science	130	104	129	151	149	145	164	153	189	189	21
Nursing science	399	353	415	365	435	413	394	422	415	482	50
Medicinal/pharmaceutical sciences	156	137	164	148	160	118	161	168	154	265	27
Public health	154	173	207	216	219	206	260	279	295	285	23
Rehabilitation/therapeutic services	35	26	40	36	70	69	67	66	74	75	8
Speech-language pathology and audiology	95	86	106	92	100	94	95	97	120	113	11
Veterinary sciences	49	49	50	60	57	48	54	47	38	72	5
Health sciences, general	17	32	49	35	39	40	33	49	44	33	3
Health sciences, other	183	137	129	162	124	159	124	120	158	131	9
Physical sciences	6,670	6,224	5,983	5,866	5,604	5,830	6,045	6,691	7,462	8,029	8,12
Astronomy	206	159	185	186	141	167	165	186	197	223	24
Astronomy	91	59	78	89	52	69	68	72	64	87	10
Astrophysics	115	100	107	97	89	98	97	114	133	136	14
Atmospheric science and meteorology	125	124	143	116	117	139	126	145	146	167	18
Atmospheric chemistry and climatology	38	43	39	33	39	39	29	42	30	38	4
Atmospheric physics and dynamics	24	17	17	17	13	21	33	28	30	39	5

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Meteorology	25	22	34	20	15	25	22	20	18	17	23
Atmospheric science/meteorology, general	22	32	36	34	27	33	24	30	40	47	40
Atmospheric science/meteorology, other	16	10	17	12	23	21	18	25	28	26	16
Chemistry	2,216	2,132	1,989	1,982	1,923	2,040	1,986	2,126	2,362	2,325	2,247
Analytical chemistry	383	333	326	334	302	339	323	363	367	397	372
Inorganic chemistry	287	279	221	279	250	264	240	256	267	273	300
Medicinal/pharmaceutical chemistry ^a	114	131	107	115	99	110	113	110	150	na	na
Nuclear chemistry	6	10	9	4	9	4	na	na	na	na	na
Organic chemistry	598	563	525	523	523	557	541	603	624	652	638
Physical chemistry	279	310	271	285	303	321	264	298	376	327	330
Polymer chemistry	122	95	107	107	102	109	116	119	134	122	106
Theoretical chemistry	41	56	52	40	48	49	54	57	86	86	79
Chemistry, general	284	196	261	203	202	184	198	191	211	310	276
Chemistry, other	102	159	110	92	85	103	137	129	147	158	146
Computer and information sciences	927	856	861	830	809	867	948	1,129	1,453	1,656	1,786
Computer science	821	741	724	692	674	700	767	952	1,216	1,432	1,498
Information science and systems	106	115	137	81	80	65	106	84	135	131	181
Computer and information science, other	na	na	na	57	55	102	75	93	102	93	107
Geological and earth sciences	470	420	344	348	391	348	371	379	432	480	458
Geochemistry	58	55	50	41	69	53	38	55	53	58	78
Geology	171	157	123	115	132	119	98	107	126	143	141
Geomorphology and glacial geology	21	18	14	10	15	20	22	12	24	21	12
Geophysics and seismology	106	100	70	88	92	75	87	92	81	111	116
Mineralogy and petrology	14	14	5	15	13	8	17	8	18	19	16
Paleontology	23	15	31	16	21	18	25	29	30	32	26
Stratigraphy and sedimentation	24	17	13	13	7	16	19	15	19	20	10
Geological and earth sciences, general	13	9	20	16	12	9	23	24	30	26	25
Geological and earth sciences, other	40	35	18	34	30	30	42	37	51	50	34
Mathematics	1,177	1,083	1,050	1,010	919	993	1,076	1,205	1,325	1,393	1,400
Algebra	75	84	82	68	65	69	97	97	124	115	122
Analysis and functional analysis	130	86	81	91	74	85	99	111	98	119	112
Applied mathematics	265	252	238	214	226	223	264	292	347	334	359
Computing theory and practice	19	14	17	11	11	8	10	16	14	32	26
Geometry/geometric analysis	54	65	59	41	52	48	95	96	89	91	100
Logic	16	23	19	24	14	17	15	26	20	26	25
Number theory	46	50	40	35	26	46	39	62	60	66	62
Operations research	17	21	19	14	19	19	25	23	32	30	27
Statistics	204	174	195	200	166	191	226	267	301	359	303
Topology/foundations	65	65	50	54	40	49	52	51	72	62	58
Mathematics/statistics, general	162	116	151	155	133	150	81	104	107	145	143
Mathematics/statistics, other	124	133	99	103	93	88	73	60	61	14	63

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Ocean/marine sciences	171	179	207	196	181	196	189	190	179	231	218
Hydrology and water resources	35	32	43	45	35	26	49	41	38	42	45
Marine sciences	18	30	36	36	42	36	59	61	61	72	73
Oceanography, chemical and physical	94	100	99	85	86	98	66	74	60	109	84
Ocean/marine, other	24	17	29	30	18	36	15	14	20	8	16
Physics	1,378	1,271	1,204	1,198	1,123	1,080	1,184	1,331	1,368	1,554	1,586
Acoustics	18	16	10	10	18	24	17	25	15	18	16
Applied physics	na	na	na	na	na	na	71	102	99	124	136
Atomic/molecular/chemical physics	100	100	110	81	82	74	82	87	90	111	119
Biophysics (Physics)	na	na	na	na	na	na	54	72	96	124	119
Condensed matter/low temperature physics	314	307	279	295	298	273	277	314	335	360	396
Particle (elementary) physics	173	169	147	121	154	134	163	188	200	203	210
Fluids physics	26	23	10	8	15	9	na	na	na	na	na
Nuclear physics	92	77	74	80	76	67	74	69	86	74	61
Optics/phototonics	105	98	117	107	107	95	120	144	144	153	147
Plasma/fusion physics	55	49	38	39	29	31	36	53	44	48	59
Polymer physics	24	28	21	18	22	13	18	29	23	29	44
Physics, general	190	202	224	207	171	170	141	128	145	187	160
Physics, other	281	202	174	232	151	190	131	120	91	123	119
Social sciences and psychology	7,289	7,291	7,338	7,025	6,826	7,003	7,042	7,047	7,121	7,197	7,509
Psychology	3,673	3,668	3,615	3,401	3,206	3,276	3,326	3,323	3,258	3,292	3,361
Clinical psychology	1,344	1,442	1,353	1,234	1,221	1,192	1,218	1,156	1,119	1,160	1,137
Cognitive psychology and psycholinguistics	113	143	140	141	121	132	145	147	181	175	181
Comparative psychology	6	11	7	5	2	4	6	5	5	7	9
Counseling	448	460	475	476	472	435	512	466	409	415	418
Developmental and child psychology	266	193	203	195	174	178	186	224	203	198	199
Educational psychology (psychology)	61	64	97	48	54	52	75	81	59	71	69
Experimental psychology	149	139	133	134	112	119	88	121	126	126	137
Family psychology	51	56	54	45	67	63	32	25	21	45	42
Human development and family studies	119	135	147	137	139	149	144	172	182	126	121
Industrial and organizational	189	158	188	174	154	161	157	186	174	187	213
Personality psychology	25	16	23	11	17	17	18	14	30	27	18
Physiological/psychobiology psychology	92	87	89	92	88	86	84	85	94	95	81
Psychometrics and quantitative psychology	15	14	8	10	13	11	29	22	20	35	23
Psychometrics	9	15	13	2	9	7	na	na	na	na	na
School psychology	106	121	99	101	88	102	87	109	123	123	132
Social psychology	186	176	207	198	180	203	163	183	172	199	204
Psychology, general	300	234	237	224	143	218	218	184	207	193	205
Psychology, other	194	204	142	174	152	147	164	143	133	110	172
Social sciences	3,616	3,623	3,723	3,624	3,620	3,727	3,716	3,724	3,863	3,905	4,148
Anthropology	425	462	446	410	496	472	531	456	472	511	481
Area/ethnic/cultural/gender studies	14	11	14	19	25	12	18	6	23	97	114

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Criminal justice and corrections	na	41	74								
Criminology	55	51	66	62	56	77	69	97	100	49	54
Demography/population studies	30	28	20	12	20	15	19	20	24	15	22
Econometrics	25	15	15	13	14	23	18	30	33	30	35
Economics	976	911	933	914	894	909	941	1,031	997	964	1,056
Geography	153	144	197	186	197	167	190	195	205	200	249
International relations/affairs	96	119	77	91	83	98	99	106	115	127	81
Linguistics	220	251	230	230	193	224	254	212	252	220	252
Political science and government	662	655	669	658	606	661	587	619	615	588	626
Public policy analysis	96	125	137	140	146	145	145	161	172	211	196
Sociology	549	544	617	566	547	597	580	536	578	576	601
Statistics	61	72	60	49	54	48	31	22	22	29	20
Urban affairs/studies	77	57	78	80	92	78	85	81	84	41	28
Urban/city, community and regional planning	na	70	115								
Social sciences, general	30	25	37	26	33	28	32	33	45	39	37
Social sciences, other	147	153	127	168	164	173	117	119	126	97	107
Engineering	5,922	5,330	5,323	5,510	5,081	5,281	5,777	6,427	7,185	7,744	7,862
Aerospace/aeronautical engineering	241	206	214	202	209	200	201	219	238	267	265
Chemical and related engineering	777	674	726	730	705	648	726	875	891	921	964
Chemical engineering	670	576	619	636	607	568	638	774	799	807	872
Petroleum engineering	48	45	45	37	45	36	34	50	47	40	44
Polymer and plastics engineering	59	53	62	57	53	44	54	51	45	74	48
Civil and related engineering	650	584	556	595	630	674	673	758	804	865	865
Civil engineering	587	506	480	501	540	552	547	622	655	701	712
Environmental health engineering	63	78	76	94	90	122	126	136	149	164	153
Electrical and related engineering	1,595	1,478	1,544	1,579	1,393	1,466	1,651	1,851	2,133	2,409	2,299
Communications engineering	40	39	42	47	22	36	34	27	26	37	26
Computer engineering	210	203	172	186	160	192	228	277	321	404	386
Electrical, electronics and communications engineering	1,345	1,236	1,330	1,346	1,211	1,238	1,389	1,547	1,786	1,968	1,887
Industrial engineering	229	211	176	206	230	214	217	221	234	280	281
Materials/metallurgical engineering	565	469	451	497	396	475	510	540	625	679	665
Ceramic sciences engineering	24	33	22	17	13	18	14	14	8	13	7
Materials science engineering	482	393	404	448	364	438	474	493	583	648	636
Metallurgical engineering	59	43	25	32	19	19	22	33	34	18	22
Mechanical and related engineering	1,022	855	864	953	827	814	852	978	1,146	1,128	1,139
Engineering mechanics	86	69	57	75	56	62	98	86	102	56	60
Mechanical engineering	936	786	807	878	771	752	754	892	1,044	1,072	1,079
Other engineering	843	853	792	748	691	790	947	985	1,114	1,195	1,384
Agricultural engineering	74	59	60	52	50	54	60	47	53	49	61
Bioengineering and biomedical engineering	208	245	251	233	246	281	369	417	525	638	761

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Engineering management and administration	na	34	39								
Engineering physics	15	28	26	22	16	28	28	27	35	20	26
Engineering science	49	49	34	53	31	39	58	43	44	45	35
Mining and mineral engineering	21	18	11	10	8	14	9	12	16	16	13
Nuclear engineering	94	76	98	76	64	75	59	72	67	77	98
Ocean engineering	29	16	18	28	23	12	21	18	15	18	25
Operations research	62	67	51	55	66	81	72	87	89	96	82
Systems engineering	68	42	34	46	45	44	58	58	79	73	84
Engineering, general	29	40	43	25	20	19	29	53	60	33	43
Engineering, other	194	213	166	148	122	143	184	151	131	96	117
Education	6,569	6,551	6,437	6,349	6,503	6,643	6,633	6,225	6,120	6,444	6,578
Education administration	2,066	2,044	2,031	2,070	2,346	2,356	2,340	2,165	2,050	2,159	2,248
Educational administration and supervision	950	895	814	840	791	774	741	727	629	666	673
Educational leadership	1,116	1,149	1,217	1,230	1,555	1,582	1,599	1,438	1,421	1,493	1,575
Education research	2,584	2,732	2,668	2,637	2,776	2,718	2,805	2,674	2,750	2,667	2,649
Counseling education/counseling and guidance	271	260	214	211	258	219	182	178	201	214	215
Curriculum and instruction	884	994	968	888	991	1,001	973	986	1,004	836	742
Educational assessment/testing/measurement	35	39	45	44	31	47	57	56	58	76	73
Educational psychology (education)	327	299	278	283	302	285	262	249	255	272	312
Educational statistics/research methods	56	57	56	65	67	62	64	59	72	70	66
Educational/instructional media design	91	123	137	141	172	128	193	124	156	178	176
Higher education/evaluation and research	432	465	438	516	446	490	538	515	492	507	579
School psychology	112	108	137	119	169	124	113	112	115	111	103
Social/philosophical foundations of education	129	125	135	141	127	146	135	154	160	107	122
Special education	247	262	260	229	213	216	288	241	237	296	261
Teacher education	342	293	261	296	262	242	270	263	250	298	274
Adult and continuing teacher education	172	153	151	169	138	119	143	151	116	156	118
Elementary teacher education	62	60	53	55	52	34	63	54	37	58	63
Pre-elementary/early childhood teacher education	54	49	34	50	51	70	38	36	57	53	60
Secondary teacher education	54	31	23	22	21	19	26	22	40	31	33
Teaching fields	954	893	824	723	686	714	758	663	707	879	909
Agricultural education	25	38	22	22	28	25	18	25	21	46	33
Art education	46	47	31	31	30	34	38	34	35	47	44
Business education	31	45	37	19	14	6	7	7	9	6	14
English education	53	65	44	56	53	47	45	55	48	51	70
Family and consumer/human science	8	10	14	8	9	4	15	11	13	20	31
Foreign languages education	73	62	43	47	41	46	62	80	60	66	68
Health education	70	58	71	64	39	54	42	44	43	73	61
Mathematics education	115	101	91	81	89	80	91	89	98	132	126
Music education	93	79	79	63	80	74	94	61	83	83	76
Nursing education	14	22	11	5	7	8	10	10	7	16	22
Physical education and coaching	109	115	83	81	72	75	68	48	49	48	50

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

bfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Reading education	76	68	89	72	66	60	86	74	68	101	12
Science education	110	58	60	72	60	69	86	67	81	105	9
Social science education	15	9	35	12	10	10	21	15	20	21	2
Technical education	17	27	20	10	23	24	na	na	na	na	n
Technology and industrial arts education	30	21	21	16	7	13	na	na	na	na	n
Trade and industrial education	14	14	12	7	5	5	18	6	14	4	1
Teacher education and professional development, other	55	54	61	57	53	80	57	37	58	60	6
Other education	623	589	653	623	433	613	460	460	363	441	49
Education, general	232	196	251	255	155	312	188	218	134	264	24
Education, other	391	393	402	368	278	301	272	242	229	177	25
Humanities	5,295	5,210	5,404	5,385	5,221	5,193	5,209	5,141	5,327	5,112	4,72
Foreign languages and literature	643	626	642	620	627	623	587	607	615	608	62
Arabic	9	12	15	6	5	4	7	5	10	3	
Chinese	19	27	21	16	22	24	15	22	19	17	2
French	137	148	143	141	121	102	124	113	111	117	12
German	106	90	84	84	69	100	56	76	75	92	8
Hebrew	8	4	11	6	8	5	na	na	na	na	
Italian	33	20	16	16	23	34	39	19	30	31	;
Japanese	11	10	18	17	15	20	14	23	26	21	
Russian	43	25	29	27	26	28	25	21	28	25	:
Slavic (other than Russian)	15	17	14	12	19	11	8	13	11	4	
Spanish	207	201	218	233	245	239	241	240	232	240	2
Other languages and literature	55	72	73	62	74	56	58	75	73	58	7
History	990	1,010	1,061	1,031	1,031	941	975	924	973	940	96
African history	na	na	na	na	na	na	21	18	27	24	2
American history (U.S. and Canada)	408	418	443	427	423	416	403	372	391	386	38
Asian history	70	68	51	51	66	66	66	64	80	71	
European history	230	235	243	247	232	190	221	211	216	182	1
History, science and technology and society	44	50	42	40	48	46	48	43	56	51	
Latin American history	na	na	na	na	na	na	47	45	49	44	
Middle/near east studies	na	na	na	na	na	na	na	na	na	45	,
History, general History, other	86 152	75 164	102 180	75 191	79 183	72 151	55 114	77 94	59 95	74 63	(
Letters	1,600	1,516	1,612	1,493	1,455	1,416	1,407	1,389	1,457	1,357	1,42
American literature (U.S. and Canada)	389	372	460	385	369	362	351	406	382	334	3:
Classics	85	372 77	64	56	57	75	70	61	78	63	٠.
Comparative literature	164	166	187	204	175	165	70 175	180	165	176	10
Creative writing	na	na	na	na	na	na	na	na	na	21	'
English language	146	133	66	124	86	132	156	137	136	223	1
English literature (British and Commonwealth)	543	517	544	469	520	436	426	416	437	349	3
Folklore	na	na	na	na	na	na	22	18	14	10	
Speech and rhetorical studies	169	150	143	127	137	151	128	98	142	127	12

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Letters, general	22	19	55	34	31	27	16	19	21	15	34
Letters, other	82	82	93	94	80	68	63	54	82	39	45
Other humanities	2,062	2,058	2,089	2,241	2,108	2,213	2,240	2,221	2,282	2,207	1,705
American/U.S. studies	100	98	113	127	97	94	115	104	107	110	124
Archeology	34	26	36	40	26	33	34	44	39	58	47
Art history/criticism/conservation	221	188	228	225	218	254	248	211	247	228	207
Bible/biblical studies	na	42	79								
Drama/theater arts	92	99	82	104	93	86	93	88	85	107	83
Music	696	768	746	793	766	873	848	907	921	412	68
Music performance	na	226	59								
Music theory and composition	na	55	90								
Musicology/ethnomusicology	na	39	107								
Music, other	na	99	18								
Philosophy	410	389	364	415	363	392	365	355	370	411	401
Religion/religious studies	327	335	348	340	354	304	387	370	381	327	332
Humanities, general	23	24	40	30	19	27	18	25	23	34	14
Humanities, other	159	131	132	167	172	150	132	117	109	59	76
Other fields	2,281	2,287	2,257	2,235	2,311	2,300	2,596	2,540	2,700	2,958	2,914
Business management/administration	1,175	1,109	1,065	1,064	1,113	1,036	1,254	1,170	1,311	1,506	1,437
Accounting	154	154	111	115	113	106	130	130	138	170	140
Banking/financial support services	83	74	72	71	76	80	106	83	104	5	4
Business administration and management	348	315	321	348	346	340	369	298	355	326	208
Business/managerial economics	57	42	52	50	39	44	59	55	45	31	18
Finance	na	86	244								
Human resources development	na	na	na	na	na	na	87	100	93	87	65
International business/trade/commerce	33	34	32	29	25	44	31	28	31	31	32
Management information systems/business statistics	87	83	85	100	91	86	94	95	137	142	156
Marketing management and research	142	127	141	115	132	111	134	143	164	196	192
Operations research	57	52	61	41	36	26	52	50	65	66	78
Organizational behavior	105	101	99	118	173	113	125	120	111	183	160
Business management/administration, general	38	49	36	20	34	18	24	27	27	105	63
Business management/administration, other	71	78	55	57	48	68	43	41	41	78	77
Communication	373	379	389	390	397	415	450	487	510	555	556
Communication research	52	50	53	60	63	63	60	63	80	98	104
Communication theory	48	47	39	40	43	42	49	54	47	30	31
Mass communication/media studies	142	153	154	154	156	161	187	214	229	188	175
Film, radio, TV and digital communication	na	31	62								
Communication, general	62	69	77	78	70	89	75	76	101	119	103
Communication, other	69	60	66	58	65	60	79	80	53	89	81
Fields not elsewhere classified	729	798	799	781	801	849	892	883	871	876	921
Architecture/environmental design	52	65	61	66	67	69	66	76	92	96	74
Family/consumer science/human science	18	23	23	19	24	21	44	51	52	39	59

TABLE 47. Doctorate recipients, by subfield of study: 1998–2008

Subfield of study	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Law	31	37	41	35	50	52	56	41	76	79	88
Library science	34	39	45	41	32	42	23	30	30	36	31
Parks/sports/recreation/leisure/fitness	37	29	45	41	52	38	82	72	59	59	76
Public administration	104	117	103	96	103	121	116	104	98	112	114
Social work	235	225	257	260	238	273	304	323	308	287	337
Theology/religious education	158	161	171	172	173	174	150	150	114	104	138
Professional fields, general	0	9	3	8	7	4	na	na	na	na	na
Other fields, not elsewhere classified	60	93	50	43	55	55	51	36	42	64	4
Unknown field	4	1	4	0	0	0	0	0	8	21	0

na = not applicable (i.e., the field was not on the questionnaire's specialties list for that year).

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a This field was removed from the taxonomy in 2007. Graduates who indicated this field in 2007 are represented in the counts for Chemistry, other.

TABLE 48. Doctorate recipients, by race/ethnicity and citizenship: 1998–2008

					Yea	r of doctorat	:e				
Race/ethnicity and citizenship	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total all doctorates	42,638	41,097	41,366	40,738	40,025	40,758	42,118	43,381	45,615	48,112	48,802
U.S. citizens and permanent residents	31,196	30,304	29,938	28,875	27,711	28,146	28,010	27,925	28,746	29,438	30,791
Temporary visa holders	9,462	9,060	9,666	9,812	9,747	10,595	11,622	12,831	14,155	15,127	15,246
Unknown citizenship	1,980	1,733	1,762	2,051	2,567	2,017	2,486	2,625	2,714	3,547	2,765
American Indian ^a	189	213	168	164	155	142	135	142	131	151	130
U.S. citizens and permanent residents	189	213	168	152	150	137	131	140	120	143	123
Temporary visa holders ^b	0	0	0	12	5	5	4	2	11	D	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	D	D
Asian ^c	8,569	7,996	8,062	8,119	7,902	8,296	9,077	10,244	11,738	12,439	12,618
U.S. citizens and permanent residents	2,729	2,497	2,275	2,190	2,119	2,046	2,061	2,185	2,387	2,330	2,543
Temporary visa holders	5,809	5,472	5,765	5,899	5,744	6,220	6,965	8,010	9,272	10,023	10,063
Unknown citizenship	31	27	22	30	39	30	51	49	79	86	12
Black	1,912	2,053	2,098	2,013	2,034	2,099	2,385	2,188	2,212	2,463	2,483
U.S. citizens and permanent residents	1,603	1,764	1,750	1,731	1,756	1,797	1,987	1,798	1,788	1,956	2,030
Temporary visa holders	297	281	335	265	255	266	357	384	387	479	444
Unknown citizenship	12	8	13	17	23	36	41	6	37	28	9
Hispanic ^d	1,882	1,901	1,963	1,912	2,029	2,222	2,030	2,281	2,308	2,538	2,703
U.S. citizens and permanent residents	1,331	1,323	1,310	1,266	1,370	1,430	1,301	1,431	1,511	1,650	1,765
Temporary visa holders	543	561	646	621	648	781	712	843	781	866	932
Unknown citizenship	8	17	7	25	11	11	17	7	16	22	6
White	26,791	26,427	26,401	25,488	24,378	24,511	24,643	24,754	25,439	25,964	26,516
U.S. citizens and permanent residents	24,288	23,903	23,715	22,683	21,442	21,563	21,426	21,483	21,944	22,341	23,208
Temporary visa holders	2,404	2,484	2,614	2,654	2,692	2,826	3,047	3,170	3,288	3,365	3,268
Unknown citizenship	99	40	72	151	244	122	170	101	207	258	40
Multi-race	na	na	na	336	307	409	424	441	531	545	564
U.S. citizens and permanent residents	na	na	na	306	274	365	387	399	457	508	520
Temporary visa holders	na	na	na	28	33	43	35	42	72	33	43
Unknown citizenship	na	na	na	2	0	1	2	0	2	4	1
Other/unknown ^e	3,295	2,507	2,674	2,706	3,220	3,079	3,424	3,331	3,256	4,012	3,788
U.S. citizens and permanent residents	1,056	604	720	547	600	808	717	489	539	510	602
Temporary visa holders	409	262	306	333	370	454	502	380	344	D	D
Unknown citizenship	1,830	1,641	1,648	1,826	2,250	1,817	2,205	2,462	2,373	D	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race and ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

TABLE 49. Male doctorate recipients, by race/ethnicity and citizenship: 1998–2008

					Yea	r of doctorat	e				
Race/ethnicity and citizenship	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total all doctorates	24,630	23,437	23,163	22,777	21,808	22,255	22,964	23,735	25,019	26,176	26,271
U.S. citizens and permanent residents	16,562	15,899	15,293	14,674	13,761	13,910	13,750	13,573	14,138	14,211	14,746
Temporary visa holders	6,986	6,633	6,856	7,010	6,765	7,256	7,909	8,749	9,370	9,995	9,979
Unknown citizenship	1,082	905	1,014	1,093	1,282	1,089	1,305	1,413	1,511	1,970	1,546
American Indian ^a	104	96	76	77	72	56	61	60	62	69	54
U.S. citizens and permanent residents	104	96	76	69	69	53	58	58	55	64	51
Temporary visa holders ^b	0	0	0	8	3	3	3	2	7	D	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	D	D
Asian ^c	6,034	5,529	5,352	5,437	5,162	5,453	5,831	6,565	7,374	7,829	7,752
U.S. citizens and permanent residents	1,641	1,477	1,242	1,187	1,128	1,079	1,004	1,073	1,142	1,066	1,142
Temporary visa holders	4,376	4,032	4,094	4,228	4,010	4,357	4,792	5,464	6,184	6,709	6,604
Unknown citizenship	17	20	16	22	24	17	35	28	48	54	6
Black	819	909	882	870	857	836	976	913	930	1,038	1,029
U.S. citizens and permanent residents	609	700	643	676	676	651	718	661	657	705	732
Temporary visa holders	203	204	234	186	176	177	240	248	261	317	296
Unknown citizenship	7	5	5	8	5	8	18	4	12	16	1
Hispanic ^d	1,062	991	1,069	1,021	1,041	1,171	1,090	1,193	1,205	1,307	1,355
U.S. citizens and permanent residents	685	578	609	568	600	666	596	606	687	735	746
Temporary visa holders	374	405	457	445	435	501	487	585	511	560	606
Unknown citizenship	3	8	3	8	6	4	7	2	7	12	3
White	14,686	14,506	14,206	13,685	12,843	12,791	12,848	12,953	13,330	13,397	13,597
U.S. citizens and permanent residents	12,894	12,683	12,311	11,705	10,829	10,832	10,779	10,736	11,089	11,128	11,478
Temporary visa holders	1,739	1,805	1,861	1,890	1,862	1,904	2,000	2,157	2,141	2,141	2,101
Unknown citizenship	53	18	34	90	152	55	69	60	100	128	18
Multi-race	na	na	na	158	133	190	195	195	250	236	259
U.S. citizens and permanent residents	na	na	na	139	112	164	170	167	202	211	235
Temporary visa holders	na	na	na	19	21	25	24	28	47	22	24
Unknown citizenship	na	na	na	0	0	1	1	0	1	3	0
Other/unknown ^e	1,925	1,406	1,578	1,529	1,700	1,758	1,963	1,856	1,868	2,300	2,225
U.S. citizens and permanent residents	629	365	412	330	347	465	425	272	306	302	362
Temporary visa holders	294	187	210	234	258	289	363	265	219	D	D
Unknown citizenship	1,002	854	956	965	1,095	1,004	1,175	1,319	1,343	D	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

^e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race/ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

TABLE 50. Female doctorate recipients, by race/ethnicity and citizenship: 1998–2008

			•		Yea	r of doctorat	te				
Race/ethnicity and citizenship	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total all doctorates	17,848	17,488	18,130	17,886	18,136	18,503	19,152	19,580	20,554	21,884	22,496
U.S. citizens and permanent residents	14,606	14,405	14,640	14,201	13,949	14,236	14,260	14,350	14,608	15,226	16,044
Temporary visa holders	2,456	2,423	2,809	2,801	2,977	3,339	3,713	4,078	4,785	5,130	5,267
Unknown citizenship	786	660	681	884	1,210	928	1,179	1,152	1,161	1,528	1,185
American Indian ^a	85	117	92	87	83	86	74	82	69	82	76
U.S. citizens and permanent residents	85	117	92	83	81	84	73	82	65	79	72
Temporary visa holders ^b	0	0	0	4	2	2	1	0	4	D	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	D	D
Asian ^c	2,519	2,466	2,710	2,682	2,740	2,843	3,246	3,677	4,363	4,607	4,865
U.S. citizens and permanent residents	1,080	1,020	1,033	1,003	991	967	1,057	1,111	1,245	1,264	1,400
Temporary visa holders	1,426	1,439	1,671	1,671	1,734	1,863	2,173	2,545	3,088	3,312	3,459
Unknown citizenship	13	7	6	8	15	13	16	21	30	31	6
Black	1,091	1,144	1,216	1,143	1,177	1,263	1,409	1,275	1,281	1,425	1,454
U.S. citizens and permanent residents	993	1,064	1,107	1,055	1,080	1,146	1,269	1,137	1,131	1,251	1,298
Temporary visa holders	93	77	101	79	79	89	117	136	126	162	148
Unknown citizenship	5	3	8	9	18	28	23	2	24	12	8
Hispanic ^d	818	910	893	891	988	1,051	940	1,088	1,103	1,231	1,348
U.S. citizens and permanent residents	645	745	700	698	770	764	705	825	824	915	1,019
Temporary visa holders	168	156	189	176	213	280	225	258	270	306	326
Unknown citizenship	5	9	4	17	5	7	10	5	9	10	3
White	12,100	11,921	12,194	11,803	11,534	11,720	11,795	11,801	12,109	12,567	12,919
U.S. citizens and permanent residents	11,393	11,220	11,404	10,978	10,612	10,731	10,647	10,747	10,855	11,213	11,730
Temporary visa holders	661	679	753	764	830	922	1,047	1,013	1,147	1,224	1,167
Unknown citizenship	46	22	37	61	92	67	101	41	107	130	22
Multi-race	na	na	na	178	174	219	229	245	281	309	305
U.S. citizens and permanent residents	na	na	na	167	162	201	217	231	255	297	285
Temporary visa holders	na	na	na	9	12	18	11	14	25	11	19
Unknown citizenship	na	na	na	2	0	0	1	0	1	1	1
Other/unknown ^e	1,235	930	1,025	1,102	1,440	1,321	1,459	1,412	1,348	1,663	1,529
U.S. citizens and permanent residents	410	239	304	217	253	343	292	217	233	207	240
Temporary visa holders	108	72	95	98	107	165	139	112	125	D	D
Unknown citizenship	717	619	626	787	1,080	813	1,028	1,083	990	D	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race/ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

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TABLE S-1. Doctorates awarded and annual percentage change in doctorates awarded by U.S. colleges and universities: 1957-2007

.,	Doctorate	% change from	.,	Doctorate	% change from
Year	recipients	previous year	Year	recipients	previous year
1957	8,611	1.1	1983	31,280	0.6
1958	8,773	1.9	1984	31,334	0.2
1959	9,213	5.0	1985	31,295	-0.1
1960	9,733	5.6	1986	31,897	1.9
1961	10,413	7.0	1987	32,365	1.5
1962	11,500	10.4	1988	33,497	3.5
1963	12,728	10.7	1989	34,325	2.5
1964	14,325	12.5	1990	36,065	5.1
1965	16,340	14.1	1991	37,530	4.1
1966	17,949	9.8	1992	38,886	3.6
1967	20,403	13.7	1993	39,800	2.4
1968	22,937	12.4	1994	41,033	3.1
1969	25,743	12.2	1995	41,747	1.7
1970	29,498	14.6	1996	42,437	1.7
1971	31,867	8.0	1997	42,539	0.2
1972	33,041	3.7	1998	42,638	0.2
1973	33,755	2.2	1999	41,097	-3.6
1974	33,047	-2.1	2000	41,366	0.7
1975	32,952	-0.3	2001	40,738	-1.5
1976	32,946	0.0	2002	40,025	-1.8
1977	31,716	-3.7	2003	40,758	1.8
1978	30,875	-2.7	2004	42,118	3.3
1979	31,238	1.2	2005	43,381	3.0
1980	31,019	-0.7	2006	45,615	5.1
1981	31,355	1.1	2007	48,112	5.5
1982	31,108	-0.8			

TABLE S-2. U.S. colleges and universities awarding doctorates and average doctorate recipients per institution: 1967–2007

			Mean number of doctorate recipients	Median number of doctorate recipients
Year	Doctorate recipients	Institutions	per institution	per institution
1967	20,403	219	93	40.0
1968	22,937	229	100	43.0
1969	25,743	231	111	52.0
1970	29,498	240	123	55.0
1971	31,867	260	123	48.5
1972	33,041	267	124	52.0
1973	33,755	286	118	42.0
1974	33,047	292	113	39.5
1975	32,952	292	113	43.5
1976	32,946	294	112	43.5
1977	31,716	304	104	41.0
1978	30,875	311	99	36.0
1979	31,238	311	100	40.0
1980	31,019	320	97	37.0
1981	31,355	323	97	41.0
1982	31,108	328	95	35.0
1983	31,280	332	94	37.0
1984	31,334	331	95	39.0
1985	31,295	337	93	36.0
1986	31,897	340	94	36.0
1987	32,365	349	93	38.0
1988	33,497	351	95	36.0
1989	34,325	356	96	36.0
1990	36,065	354	102	42.5
1991	37,530	364	103	38.5
1992	38,886	367	106	42.0
1993	39,800	372	107	42.5
1994	41,033	374	110	43.0
1995	41,747	382	109	43.0
1996	42,437	390	109	44.0
1997	42,539	384	111	44.5
1998	42,638	388	110	43.5
1999	41,097	397	104	41.0
2000	41,366	409	101	40.0
2001	40,738	418	97	36.0
2002	40,025	416	96	38.0
2003	40,758	425	96	36.0
2004	42,118	419	101	38.0
2005	43,381	419	104	41.0
2006	45,615	419	109	40.0
2007	48,112	414	116	45.5

TABLE S-3. Top 20 doctorate-granting institutions, by broad field of study: 2007

Institution	Doctorate recipients	Institution	Doctorate recipients
All fields	48,112	Life sciences ^a	10,628
U. CA, Berkeley	896	Harvard U.	218
U. MI	783	U. WI-Madison	211
U. MN	778	Johns Hopkins U.	206
U. TX-Austin	778	U. FL	204
U. WI-Madison	773	U. MN	201
U. CA, Los Angeles	719	U. CA, Davis	190
U. IL-Urbana-Champaign	693	U. CA, Berkeley	186
Harvard U.	690	U. WA	183
PA State U., The	685	OH State U., The	170
Stanford U.	684	U. CA, Los Angeles	168
OH State U., The	664	U. NC Chapel Hill	163
U. FL	647	Cornell U.	143
U. MD	645	U. MI	141
Purdue U.	609	PA State U., The	138
MA Institute of Technology	601	Boston U.	124
U. WA	592	TX A&M U.	121
U. Southern CA	584	U. AZ	117
TX A&M U.	579	Purdue U.	116
Cornell U.	485	U. GA	115
U. PA	484	U. PA	115
Physical sciences ^b	8,029	Social sciences ^c	7,197
U. CA, Berkeley	207	U. CA, Berkeley	138
Stanford U.	175	Harvard U.	129 114
MA Institute of Technology U. WI-Madison	168 159	U. MD	113
U. IL-Urbana-Champaign	159	U. CA, Los Angeles Graduate School & U. Ctr., CUNY	112
U. TX-Austin	138	U. MI	112
Harvard U.	128	U. TX-Austin	103
U. MN	128	OH State U., The	96
U. MI	127	U. Chicago, The	92
Cornell U.	124	Stanford U.	88
U. MD	122	U. WI-Madison	84
Purdue U.	121	PA State U., The	83
U. CA, Los Angeles	114	U. MN	82
U. WA	113	U. AZ	80
PA State U., The	110	U. IL-Urbana-Champaign	78
SUNY Stony Brook U.	109	U. WA	71
U. CA, Davis	103	TX A&M U.	70
U. CA, San Diego	103	U. NC Chapel Hill	70
GA Institute of Technology	101	U. Southern CA	69
NC State U.	99	Cornell U.	68
OH State U., The	99	U. CA, San Diego	68
on oute of, me		U. FL	68
Engineering	7,744	Education	6,444
GA Institute of Technology	326	U. Southern CA	147
MA Institute of Technology	272	Teachers C., Columbia U.	132
U. MI	228	U. TX-Austin	109
Stanford U.	225	U. MN	98
Purdue U.	208	OH State U., The	97
U. IL-Urbana-Champaign	188	PA State U., The	93
U. TX-Austin	186	TX A&M U.	81
U. CA, Berkeley	185	MI State U.	77
U. FL	180	AZ State U.	75
TX A&M U.	157	St. Louis U.	75
	152		74

TABLE S-3. Top 20 doctorate-granting institutions, by broad field of study: 2007

	Doctorate		Doctorate
Institution	recipients	Institution	recipients
U. MD	142	U. GA	74
NC State U.	133	U. WI-Madison	74
U. CA, Los Angeles	127	U. MO-Columbia	73
VA Polytechnic Institute and State U.	126	VA Polytechnic Institute and State U.	72
U. MN	120	National-Louis U.	71
U. WI-Madison	109	U. VA	69
U. Southern CA	107	Loyola U. Chicago	66
U. CA, San Diego	103	U. NE-Lincoln	66
U. WA	102	U. PA	66
Humanities	5,112	Other fields	2,958
Harvard U.	125	PA State U., The	58
U. CA, Berkeley	113	NY U.	55
U. CA, Los Angeles	111	U. GA	54
U. TX-Austin	111	U. TX-Austin	53
U. MN	107	U. PA	50
Columbia U.	106	Walden U.	49
U. MI	106	U. IL-Urbana-Champaign	48
U. Chicago, The	98	George Washington U.	47
U. WI-Madison	98	MI State U.	47
Yale U.	96	FL State U.	46
NY U.	89	Columbia U.	44
IN U.	88	IN U.	43
U. MD	88	U. WA	43
Graduate School & U. Ctr., CUNY	87	U. MN	42
Princeton U.	82	TX A&M U.	41
Boston U.	72	Harvard U.	38
FL State U.	72	Nova Southeastern U.	38
Rutgers U.	69	U. WI-Madison	38
OH State U., The	68	AZ State U.	37
U. NC Chapel Hill	67	OH State U., The	36
		U. CA, Berkeley	36
		U. MD	36

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTE: Two or more institutions with the same number of doctorate recipients are listed in alphabetical order.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE S-4. State of awarding institution, including the District of Columbia and Puerto Rico, ranked by number of doctorate recipients: 2007

Rank	State	Doctorate recipients	Rank	State	Doctorate recipients
1	California	5,806	27	District of Columbia	550
2	New York	3,837	28	Kansas	452
3	Texas	3,293	29	South Carolina	446
4	Massachusetts	2,594	30	Kentucky	439
5	Illinois	2,422	31	Utah	431
6	Pennsylvania	2,407	32	Oregon	428
7	Florida	1,989	33	Oklahoma	411
8	Ohio	1,775	34	Mississippi	386
9	Michigan	1,744	35	Nebraska	322
10	North Carolina	1,373	36	New Mexico	287
11	Georgia	1,311	37	Rhode Island	247
12	Maryland	1,265	38	Delaware	246
13	Indiana	1,252	39	Arkansas	160
14	Virginia	1,147	39	West Virginia	160
15	Minnesota	1,057	41	Puerto Rico	153
16	New Jersey	997	42	Hawaii	144
17	Wisconsin	988	43	New Hampshire	143
18	Arizona	889	44	Nevada	139
19	Missouri	835	45	North Dakota	134
19	Washington	835	46	Idaho	132
21	Colorado	817	47	Montana	90
22	Tennessee	764	48	South Dakota	86
23	Connecticut	707	49	Wyoming	74
24	lowa	658	50	Vermont	60
25	Alabama	575	51	Maine	50
26	Louisiana	572	52	Alaska	33

NOTE: Two or more states with the same number of doctorate recipients are listed in alphabetical order.

TABLE S-5. Major field of study of doctorate recipients: Selected years, 1977–2007

	197	77	198	32	198	37	199	92	199)7	200	02	200)7
Field of study	Number	Percent												
All fields	31,716	100.0	31,108	100.0	32,365	100.0	38,886	100.0	42,539	100.0	40,025	100.0	48,112	100.0
Life sciences	4,977	15.7	5,762	18.5	5,783	17.9	7,172	18.4	8,421	19.8	8,479	21.2	10,628	22.1
Agricultural sciences/natural resources	982	3.1	1,183	3.8	1,144	3.5	1,261	3.2	1,212	2.8	1,129	2.8	1,320	2.7
Biological/biomedical sciences	3,484	11.0	3,893	12.5	3,839	11.9	4,799	12.3	5,788	13.6	5,695	14.2	7,179	14.9
Health sciences	511	1.6	686	2.2	800	2.5	1,112	2.9	1,421	3.3	1,655	4.1	2,129	4.4
Physical sciences	4,325	13.6	4,238	13.6	5,000	15.4	6,444	16.6	6,581	15.5	5,604	14.0	8,029	16.7
Chemistry	1,571	5.0	1,680	5.4	1,975	6.1	2,213	5.7	2,148	5.0	1,923	4.8	2,325	4.8
Computer and information sciences ^a	na	na	220	0.7	450	1.4	869	2.2	909	2.1	809	2.0	1,656	3.4
Earth, atmospheric, and ocean sciences	640	2.0	604	1.9	599	1.9	767	2.0	803	1.9	689	1.7	878	1.8
Mathematics	964	3.0	720	2.3	739	2.3	1,058	2.7	1,123	2.6	919	2.3	1,393	2.9
Physics and astronomy	1,150	3.6	1,014	3.3	1,237	3.8	1,537	4.0	1,598	3.8	1,264	3.2	1,777	3.7
Social sciences	6,260	19.7	6,026	19.4	5,988	18.5	6,481	16.7	7,285	17.1	6,826	17.1	7,197	15.0
Anthropology	385	1.2	333	1.1	352	1.1	320	0.8	434	1.0	496	1.2	511	1.1
Economics	837	2.6	761	2.4	821	2.5	910	2.3	1,030	2.4	908	2.3	994	2.1
Political science/international relations	900	2.8	727	2.3	685	2.1	855	2.2	997	2.3	882	2.2	935	1.9
Psychology	2,990	9.4	3,158	10.2	3,172	9.8	3,262	8.4	3,557	8.4	3,206	8.0	3,292	6.8
Sociology	725	2.3	568	1.8	423	1.3	495	1.3	577	1.4	547	1.4	576	1.2
Other social sciences	423	1.3	479	1.5	535	1.7	639	1.6	690	1.6	787	2.0	889	1.8
Engineering	2,643	8.3	2,646	8.5	3,712	11.5	5,438	14.0	6,115	14.4	5,081	12.7	7,744	16.1
Aerospace/aeronautical engineering	115	0.4	86	0.3	142	0.4	234	0.6	274	0.6	209	0.5	267	0.6
Chemical and related engineering	324	1.0	333	1.1	584	1.8	725	1.9	767	1.8	705	1.8	921	1.9
Civil and related engineering	336	1.1	368	1.2	477	1.5	594	1.5	655	1.5	630	1.6	865	1.8
Electrical and related engineering	667	2.1	616	2.0	779	2.4	1,483	3.8	1,720	4.0	1,393	3.5	2,409	5.0
Industrial engineering	73	0.2	79	0.3	120	0.4	196	0.5	246	0.6	230	0.6	280	0.6
Materials/metallurgical engineering	248	0.8	255	0.8	392	1.2	485	1.2	582	1.4	396	1.0	679	1.4
Mechanical and related engineering	372	1.2	437	1.4	657	2.0	987	2.5	1,022	2.4	827	2.1	1,128	2.3
Other engineering	508	1.6	472	1.5	561	1.7	734	1.9	849	2.0	691	1.7	1,195	2.5
Education	7,455	23.5	7,251	23.3	6,453	19.9	6,677	17.2	6,577	15.5	6,503	16.2	6,444	13.4
Education administration	1,516	4.8	1,474	4.7	1,687	5.2	1,984	5.1	2,050	4.8	2,346	5.9	2,159	4.5
Education research	3,388	10.7	3,189	10.3	2,601	8.0	2,503	6.4	2,695	6.3	2,776	6.9	2,667	5.5
Teacher education	502	1.6	588	1.9	447	1.4	407	1.0	291	0.7	262	0.7	298	0.6
Teaching fields	1,439	4.5	1,333	4.3	1,065	3.3	1,008	2.6	919	2.2	686	1.7	879	1.8
Other education	610	1.9	667	2.1	653	2.0	775	2.0	622	1.5	433	1.1	441	0.9
Humanities	4,372	13.8	3,370	10.8	3,299	10.2	4,176	10.7	5,190	12.2	5,221	13.0	5,112	10.6
American literature	220	0.7	154	0.5	190	0.6	291	0.7	408	1.0	369	0.9	334	0.7
English language and literature	856	2.7	616	2.0	478	1.5	612	1.6	686	1.6	606	1.5	572	1.2
Foreign language and literature	728	2.3	490	1.6	444	1.4	562	1.4	652	1.5	627	1.6	608	1.3
History	961	3.0	692	2.2	585	1.8	724	1.9	965	2.3	1,031	2.6	940	2.0
Other humanities	1,607	5.1	1,418	4.6	1,602	4.9	1,987	5.1	2,479	5.8	2,588	6.5	2,658	5.5

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TABLE S-5. Major field of study of doctorate recipients: Selected years, 1977–2007

	197	77	198	32	198	37	199	92	19	97	200)2	20	07
Field of study	Number	Percent												
Other fields	1,684	5.3	1,815	5.8	2,130	6.6	2,498	6.4	2,370	5.6	2,311	5.8	2,958	6.1
Business and management	671	2.1	685	2.2	981	3.0	1,248	3.2	1,245	2.9	1,113	2.8	1,506	3.1
Communication	302	1.0	265	0.9	309	1.0	330	0.8	331	0.8	397	1.0	555	1.2
Fields not elsewhere classified	711	2.2	865	2.8	840	2.6	920	2.4	793	1.9	801	2.0	876	1.8
Unknown field	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	21	0.0

na = not applicable (i.e., the field was not on the questionnaire's specialties list for that year).

NOTE: Major field of study definitions are detailed in appendix B.

^a Computer and information sciences first appeared on the survey form in 1978.

TABLE S-6. Doctorate recipients, by sex and broad field of study: Selected years, 1977–2007

	197	7	198	2	198	7	199)2	199	7	200	2	200)7
Field of study and sex	Number	Percent												
All fields ^a	31,716	100.0	31,108	100.0	32,365	100.0	38,670	100.0	42,187	100.0	39,944	100.0	48,060	100.0
Male	23,858	75.2	21,015	67.6	20,934	64.7	24,234	62.7	24,944	59.1	21,808	54.6	26,176	54.5
Female	7,858	24.8	10,093	32.4	11,431	35.3	14,436	37.3	17,243	40.9	18,136	45.4	21,884	45.5
Life sciences ^b	4,977	100.0	5,762	100.0	5,783	100.0	7,141	100.0	8,367	100.0	8,467	100.0	10,615	100.0
Male	3,941	79.2	4,115	71.4	3,747	64.8	4,322	60.5	4,614	55.1	4,444	52.5	5,158	48.6
Female	1,036	20.8	1,647	28.6	2,036	35.2	2,819	39.5	3,753	44.9	4,023	47.5	5,457	51.4
Physical sciences ^c	4,325	100.0	4,238	100.0	5,000	100.0	6,399	100.0	6,528	100.0	5,595	100.0	8,020	100.0
Male	3,902	90.2	3,673	86.7	4,176	83.5	5,133	80.2	5,082	77.8	4,103	73.3	5,766	71.9
Female	423	9.8	565	13.3	824	16.5	1,266	19.8	1,446	22.2	1,492	26.7	2,254	28.1
Social sciences ^d	6,260	100.0	6,026	100.0	5,988	100.0	6,450	100.0	7,215	100.0	6,813	100.0	7,193	100.0
Male	4,463	71.3	3,778	62.7	3,388	56.6	3,353	52.0	3,404	47.2	3,041	44.6	2,979	41.4
Female	1,797	28.7	2,248	37.3	2,600	43.4	3,097	48.0	3,811	52.8	3,772	55.4	4,214	58.6
Engineering	2,643	100.0	2,646	100.0	3,712	100.0	5,368	100.0	6,067	100.0	5,069	100.0	7,733	100.0
Male	2,569	97.2	2,522	95.3	3,470	93.5	4,861	90.6	5,317	87.6	4,175	82.4	6,131	79.3
Female	74	2.8	124	4.7	242	6.5	507	9.4	750	12.4	894	17.6	1,602	20.7
Education	7,455	100.0	7,251	100.0	6,453	100.0	6,664	100.0	6,517	100.0	6,490	100.0	6,443	100.0
Male	4,870	65.3	3,712	51.2	2,896	44.9	2,688	40.3	2,394	36.7	2,196	33.8	2,103	32.6
Female	2,585	34.7	3,539	48.8	3,557	55.1	3,976	59.7	4,123	63.3	4,294	66.2	4,340	67.4
Humanities	4,372	100.0	3,370	100.0	3,299	100.0	4,165	100.0	5,154	100.0	5,211	100.0	5,106	100.0
Male	2,786	63.7	1,950	57.9	1,835	55.6	2,236	53.7	2,693	52.3	2,599	49.9	2,588	50.7
Female	1,586	36.3	1,420	42.1	1,464	44.4	1,929	46.3	2,461	47.7	2,612	50.1	2,518	49.3
Other fields	1,684	100.0	1,815	100.0	2,130	100.0	2,483	100.0	2,339	100.0	2,299	100.0	2,950	100.0
Male	1,327	78.8	1,265	69.7	1,422	66.8	1,641	66.1	1,440	61.6	1,250	54.4	1,451	49.2
Female	357	21.2	550	30.3	708	33.2	842	33.9	899	38.4	1,049	45.6	1,499	50.8

^a Group totals exclude individuals for whom sex was not reported; 216 in 1992, 352 in 1997, 81 in 2002, and 52 in 2007.

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer and information sciences.

^d Includes psychology.

TABLE S-7. Doctorate recipients and percentage of doctorates to women, by major field of study: 1997 and 2007

	1997	7 ^a	2007	7 ^b	% change in
	Doctorate		Doctorate		percentage to
Field of study	recipients	% women	recipients	% women	women
All fields	42,187	40.9	48,060	45.5	11.4
Life sciences	8,367	44.9	10,615	51.4	14.6
Agricultural sciences/natural resources	1,204	26.7	1,317	39.1	46.7
Biological/biomedical sciences	5,758	43.3	7,174	48.8	12.5
Health sciences	1,405	66.6	2,124	67.9	2.0
Physical sciences	6,528	22.2	8,020	28.1	26.9
Chemistry	2,136	28.7	2,324	35.9	25.0
Computer and information sciences	893	16.8	1,654	20.1	19.5
Earth, atmospheric, and ocean sciences	798	23.8	877	38.3	60.9
Mathematics	1,114	23.6	1,390	29.0	22.8
Physics and astronomy	1,587	14.5	1,775	19.7	35.7
Social sciences	7,215	52.8	7,193	58.6	10.9
Anthropology	429	56.2	511	61.6	9.7
Economics	1,009	23.0	992	31.9	38.5
Political science/international relations	993	35.3	934	45.7	29.3
Psychology	3,525	67.0	3,292	71.2	6.2
Sociology	575	55.3	576	62.5	13.0
Other social sciences	684	44.7	888	51.0	14.0
Engineering	6,067	12.4	7,733	20.7	67.6
Aerospace/aeronautical engineering	271	5.9	266	11.7	97.4
Chemical and related engineering	763	16.0	918	25.4	58.7
Civil and related engineering	651	12.3	864	26.6	116.6
Electrical and related engineering	1,710	8.8	2,406	15.3	74.4
Industrial engineering	245	16.3	279	27.2	66.8
Materials/metallurgical engineering	577	18.4	678	25.4	38.1
Mechanical and related engineering	1,016	8.7	1,128	12.3	42.3
Other engineering	834	17.7	1,194	29.6	66.6
Education	6,517	63.3	6,443	67.4	6.5
Education administration	2,035	58.2	2,159	62.8	7.9
Education research	2,682	66.9	2,666	69.5	3.9
Teacher education	290	68.3	298	75.5	10.6
Teaching fields	914	61.6	879	67.7	9.9
Other education	596	64.3	441	70.7	10.1
Humanities	5,154	47.7	5,106	49.3	3.3
American literature	408	59.1	334	52.1	-11.8
English language and literature	686	56.1	572	62.1	10.6
Foreign language and literature	648	59.6	608	61.0	2.4
History	959	37.3	940	41.0	9.7
Other humanities	2,453	44.5	2,652	46.5	4.5
Other fields	2,339	38.4	2,950	50.8	32.2
Business and management	1,233	30.9	1,501	42.6	37.8
Communication	329	51.1	554	62.8	23.0
Fields not elsewhere classified	776	45.1	874	57.3	27.1
Unknown field	1	0.0	21	52.4	na

na = not applicable.

NOTES: Major field of study definitions are detailed in appendix B. Change in percent to women computed as (% 2007 - % 1997) / % 1997. See table S-36.

^a 1997 field total excludes 352 individuals for whom sex was not reported.

 $^{^{\}rm b}\,2007$ field total excludes 52 individuals for whom sex was not reported.

TABLE S-8. U.S. citizen and permanent resident doctorate recipients, by race/ethnicity and broad field of study: Selected years, 1987-2007

eld of study and ce/ethnicity	1987	1992	1997	2002	2007
I fields	24,568	27,997	31,086	27,711	29,438
American Indian ^a	115	149	166	150	143
Asian ^b	1,169	1,755	3,110	2,119	2,33
Black	906	1,109	1,475	1,756	1,95
Hispanic	710	911	1,199	1,370	1,65
White	21,120	23,622	23,966	21,442	22,34
Multi-race	na	na	na	274	50
Other/unknown ^c	548	451	1,170	600	51
Life sciences ^d	4,525	5,104	5,984	5,843	6,95
American Indian ^a	16	19	18	17	3
Asian ^b	252	361	888	686	72
Black	107	115	197	212	32
Hispanic	90	140	207	237	35
White	3,953	4,390	4,518	4,538	5,29
Multi-race	na	na	na	41	11
Other/unknown ^c	107	79	156	112	11
Physical sciences ^e	3,325	3,851	4,182	3,221	3,82
American Indian ^a	10	17	13	12	
Asian ^b	228	387	664	334	37
Black	34	40	68	103	14
Hispanic	77	104	120	103	15
White	2,875	3,225	3,157	2,572	2,98
Multi-race	na	na	na	29	5
Other/unknown ^c	101	78	160	68	9
Social sciences ^f	4,768	5,114	5,712	5,264	5,16
American Indian ^a	22	27	31	34	4
Asian ^b	151	186	348	277	32
Black	170	224	293	337	32
Hispanic	166	209	263	311	33
White	4,166	4,380	4,524	4,132	3,93
Multi-race	na	na	na	59	12
Other/unknown ^c	93	88	253	114	7
Engineering	1,914	2,521	3,333	2,168	2,53
American Indian ^a	7	11	17	6	
Asian ^b	328	451	707	409	39
Black	25	49	98	85	9
Hispanic	34	71	96	98	12
White	1,459	1,879	2,289	1,481	1,80
Multi-race	na	na	na	19	4
Other/unknown ^c	61	60	126	70	6
Education	5,665	6,018	5,748	5,415	5,35
American Indian ^a	41	50	51	46	3
Asian ^b	94	143	180	139	18
Black	415	501	553	694	73
Hispanic	201	214	257	321	34
White	4,817	5,050	4,460	4,054	3,92
Multi-race	na 97	na 60	na 247	52 109	7 5
Other/unknown ^c					
Humanities	2,794	3,565	4,379	4,278	3,92
American Indian ^a	11	18	23	22 172	1
Asian ^b	54	100	187	173	20
Black	79 116	96 131	152	171	18
Hispanic	116	131	209	246	25

TABLE S-8. U.S. citizen and permanent resident doctorate recipients, by race/ethnicity and broad field of study: Selected years, 1987-2007

Field of study and					
race/ethnicity	1987	1992	1997	2002	2007
White	2,473	3,172	3,637	3,508	3,120
Multi-race	na	na	na	62	69
Other/unknown ^c	61	48	171	96	76
Other fields	1,577	1,824	1,748	1,522	1,692
American Indian ^a	8	7	13	13	6
Asian ^b	62	127	136	101	127
Black	76	84	114	154	155
Hispanic	26	42	47	54	80
White	1,377	1,526	1,381	1,157	1,267
Multi-race	na	na	na	12	24
Other/unknown ^c	28	38	57	31	33

na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001-07.

^c Prior to 2001 this category included doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic respondents who indicated more than one race; in years since 2001 this category includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or other Pacific Islanders. Includes 93 Native Hawaiians or Other Pacific Islanders in 2002 and 107 Native Hawaiians or Other Pacific Islanders in 2007.

^d Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

 $^{^{\}rm e}$ Includes mathematics and computer and information sciences.

f Includes psychology.

TABLE S-9. Major field of study for U.S. citizen and permanent resident doctorate recipients, by race/ethnicity: 2007

-	All U.S. citizen and		· · · · · · · · · · · · · · · · · · ·	R	ace/ethnicity			
	permanent resident	American						Other/
Field of study	doctorate recipients	Indian ^a	Asian ^b	Black	Hispanic	White	Multi-race	unknown ^c
All fields	29,438	143	2,330	1,956	1,650	22,341	508	510
Life sciences	6,950	30	720	321	353	5,299	111	116
Agricultural sciences/natural resources	683	9	24	22	28	582	8	10
Biological/biomedical sciences	4,787	14	556	187	259	3,619	81	71
Health sciences	1,480	7	140	112	66	1,098	22	35
Physical sciences	3,822	9	378	142	156	2,989	58	90
Chemistry	1,187	4	123	62	57	902	17	22
Computer and information sciences	640	1	106	31	18	459	9	16
Earth, atmospheric, and ocean sciences	552	0	11	9	20	489	10	13
Mathematics	605	2	70	19	23	470	6	15
Physics and astronomy	838	2	68	21	38	669	16	24
Social sciences	5,168	40	322	328	339	3,939	121	79
Anthropology	409	40	25	17	23	318	13	9
Economics	323	2	48	18	16	227	7	5
Political science/international relations	613	1	36	31	36	479	19	11
	2,792	24	154	163	205	2,145	61	40
Psychology	*							
Sociology	438	2	25	34	28	330	13	6
Other social sciences	593	7	34	65	31	440	8	8
Engineering	2,534	7	397	91	126	1,802	47	64
Aerospace/aeronautical engineering	116	1	7	0	7	93	4	4
Chemical and related engineering	326	0	44	14	14	242	2	10
Civil and related engineering	287	3	28	13	24	206	6	7
Electrical and related engineering	580	1	146	22	34	348	11	18
Industrial engineering	74	0	11	5	6	49	1	2
Materials/metallurgical engineering	260	0	39	3	8	196	9	5
Mechanical and related engineering	341	0	44	10	12	261	5	9
Other engineering	550	2	78	24	21	407	9	9
Education	5,352	37	184	734	342	3,925	78	52
Education administration	1,927	21	41	310	111	1,410	18	16
Education research	2,171	15	98	279	153	1,568	38	20
Teacher education	239	0	6	29	7	187	7	3
Teaching fields	680	1	21	74	37	534	6	7
Other education	335	0	18	42	34	226	9	6
Humanities	3,920	14	202	185	254	3,120	69	76
American literature	302	1	11	32	15	229	6	8
English language and literature	456	2	20	12	15	391	8	8
Foreign language and literature	403	2	22	10	75	281	6	7
History	793	3	27	48	47	632	15	21
Other humanities	1,966	6	122	83	102	1,587	34	32
Other fields		6						
	1,692		127	155	80	1,267	24	33
Business and management	744	4	76 10	56	24	565	7	12
Communication	376	1	19	31	11	297	9	8
Fields not elsewhere classified a Includes Alaska Natives.	572	1	32	68	45	405	8	13

^a Includes Alaska Natives.

NOTE: Major field of study definitions are detailed in appendix B.

^b Does not include Native Hawaiians or Other Pacific Islanders.

c Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE S-10. Doctorate-granting institutions having the largest number of U.S. citizen and permanent resident minority doctorate recipients, by race/ethnicity: 2003-07

Institution	Doctorate recipients	Institution	Doctorate recipients	Institution	Doctorate recipients
American Indian ^a		Asian ^b		Multi-race	
OK State U.	29	U. CA, Berkeley	472	U. CA, Berkeley	76
U. ND	20	U. CA, Los Angeles	452	U. CA, Los Angeles	51
AZ State U.	18	Stanford U.	339	Stanford U.	46
U. OK	18	Harvard U.	284	Harvard U.	44
U. AZ	15	U. Southern CA	256	U. MI	44
Fielding Graduate Institute	12	U. MI	236	U. CA, Davis	41
U. MI	12	MA Institute of Technology	214	U. WA	41
U. CA, Berkeley	11	Columbia U.	191	U. CA, Santa Barbara	34
U. MN	11	U. CA, Davis	189	U. WI-Madison	34
U. NM	11	U. PA	178	U. CA, San Diego	32
TX A&M U.	10	U. IL-Urbana-Champaign	173	MA Institute of Technology	31
U. KS	10	U. WA	170	U. HI Manoa	30
U. WI-Madison	10	Johns Hopkins U.	166	Cornell U.	26
U. MO-Kansas City	9	U. CA, San Diego	158	U. MN	25
U. NC Chapel Hill	9	U. TX-Austin	147	U. FL	24
U. TX-Austin	9	U. CA, Irvine	147	U. Southern CA	24
SUNY U. Buffalo	8	U. MD	142	Columbia U.	23
Stanford U.	8	Northwestern U.	133	PA State U., The	23
U. MT	8	U. WI-Madison	133	U. PA	21
U. Southern CA	8	NY U.	124	U. TX-Austin	21
Top 20 institutions	246	Top 20 institutions	4,297	Top 20 institutions	691
Total institutions reported (190)	671	Total institutions reported (361)	11,009	Total institutions reported (282)	2,116
Black		Hispanic			
Howard U.	325	U. PR-Rio Piedras	232		
Nova Southeastern U.	268	U. CA, Los Angeles	175		
U. MI	163	U. CA, Berkeley	174		
Walden U.	151	U. TX-Austin	171		
U. MD	134	U. Southern CA	157		
Teachers C., Columbia U.	114	U. AZ	131		
Morgan State U.	113	U. MI	130		
Clark Atlanta U.	111	U. FL	121		
U. NC Chapel Hill	110	Stanford U.	115		
Harvard U.	108	Harvard U.	110		
Wayne State U.	107	TX A&M U.	107		
George Washington U.	106	AZ State U.	97		
Loyola U. Chicago	105	U. WI-Madison	97		
Temple U.	105	U. NM	96		
U. Southern CA	104	Graduate School & U. Ctr., CUNY	94		
OH State U., The	101	FL International U.	89		
U. PA	100	U. CA, Davis	89		
FL State U.	98	U. CA, Santa Barbara	87		
U. FL	97	U. CA, San Diego	86		
U. SC	95	U. Houston	84		
Top 20 institutions	2,615	Top 20 institutions	2,442		
Total institutions reported (369)	9,326	Total institutions reported (340)	7,323		

^a Includes Alaska Natives.

NOTE: Two or more institutions with the same number of doctorate recipients are listed in alphabetical order.

^b Does not include Native Hawaiians or Other Pacific Islanders.

TABLE S-11. Citizenship status of doctorate recipients, by broad field of study: Selected years, 1977–2007

Field of study and citizenship	1977	1982	1987	1992	1997	2002	2007
All fields							
All doctorate recipients	31,716	31,108	32,365	38,886	42,539	40,025	48,112
U.S. citizen and permanent resident	27,559	25,683	24,568	27,997	31,086	27,711	29,438
Temporary visa holder	3,489	4,254	5,660	9,980	9,194	9,747	15,127
Unknown	668	1,171	2,137	909	2,259	2,567	3,547
Life sciences ^a							
All doctorate recipients	4,977	5,762	5,783	7,172	8,421	8,479	10,628
U.S. citizen and permanent resident	4,196	4,850	4,525	5,104	5,984	5,843	6,950
Temporary visa holder	679	763	939	1,956	2,058	2,121	3,029
Unknown	102	149	319	112	379	515	649
Physical sciences ^b							
All doctorate recipients	4,325	4,238	5,000	6,444	6,581	5,604	8,029
U.S. citizen and permanent resident	3,572	3,280	3,325	3,851	4,182	3,221	3,822
Temporary visa holder	680	839	1,374	2,448	2,068	2,120	3,662
Unknown	73	119	301	145	331	263	545
Social sciences ^c							
All doctorate recipients	6,260	6,026	5,988	6,481	7,285	6,826	7,197
U.S. citizen and permanent resident	5,525	5,144	4,768	5,114	5,712	5,264	5,168
Temporary visa holder	585	590	724	1,150	1,079	1,107	1,474
Unknown	150	292	496	217	494	455	555
Engineering							
All doctorate recipients	2,643	2,646	3,712	5,438	6,115	5,081	7,744
U.S. citizen and permanent resident	1,803	1,469	1,914	2,521	3,333	2,168	2,534
Temporary visa holder	780	1,044	1,539	2,749	2,555	2,650	4,586
Unknown	60	133	259	168	227	263	624
Education							
All doctorate recipients	7,455	7,251	6,453	6,677	6,577	6,503	6,444
U.S. citizen and permanent resident	6,923	6,440	5,665	6,018	5,748	5,415	5,352
Temporary visa holder	388	576	430	559	411	479	604
Unknown	144	235	358	100	418	609	488
Humanities							
All doctorate recipients	4,372	3,370	3,299	4,176	5,190	5,221	5,112
U.S. citizen and permanent resident	4,079	3,039	2,794	3,565	4,379	4,278	3,920
Temporary visa holder	183	182	259	511	537	669	794
Unknown	110	149	246	100	274	274	398
Other fields							
All doctorate recipients	1,684	1,815	2,130	2,498	2,370	2,311	2,958
U.S. citizen and permanent resident	1,461	1,461	1,577	1,824	1,748	1,522	1,692
Temporary visa holder	194	260	395	607	486	601	978
Unknown	29	94	158	67	136	188	288

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE S-12. Top 40 countries/economies of origin of temporary visa holders earning doctorates at U.S. colleges and universities, ranked by number of doctorate recipients: 2007

Rank	Country/economy	Doctorate recipients
1	China ^a	4,714
2	India	2,075
3	South Korea	1,434
4	Taiwan	694
5	Turkey	521
6	Canada	512
7	Japan	276
8	Thailand	266
9	Russian Federation	211
10	Mexico	205
11	Germany	173
12	Romania	166
13	Brazil	157
14	France	152
15	Iran	132
16	Argentina	127
16	Italy	127
18	Greece	118
19	Egypt	113
19	United Kingdom	113
21	Israel	108
22	Jordan	107
23	Colombia	106
24	Spain	100
25	Kenya	88
26	Sri Lanka	76
27	Ukraine	74
28	Malaysia	73
29	Saudi Arabia	71
30	Singapore	69
31	Philippines	68
32	Bangladesh	67
33	Australia	66
34	Peru	65
35	Chile	61
36	Pakistan	60
37	Lebanon	59
38	Venezuela	57
39	Ghana	56
40	Bulgaria	54
40	Poland	54
	Top 40 countries/economies of origin	13,825
	Total temporary visa holders (156 countries) ^b	15,029

^a Includes Hong Kong.

NOTE: Countries/economies with same number of doctorate recipients are ranked alphabetically.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2007 Survey of Earned Doctorates, including updates received in 2008.

TABLE S-13. Doctorate-granting institutions having the largest number of temporary visa holder doctorate recipients, ranked by number of doctorate recipients: 2007

Rank	Institution	Doctorate recipients
1	U. IL-Urbana-Champaign	339
2	PA State U., The	306
3	TX A&M U.	304
4	U. MN	284
5	U. MI	279
6	Purdue U.	271
7	GA Institute of Technology	270
7	U. WI-Madison	270
9	U. FL	269
10	U. Southern CA	261
11	Stanford U.	247
12	U. CA, Berkeley	231
13	OH State U., The	228
14	U. CA, Los Angeles	226
15	Cornell U.	217
16	MA Institute of Technology	200
16	NC State U.	200
18	U. MD	190
19	U. TX-Austin	186
20	Harvard U.	174
	Top 20 institutions	4,952
	Total institutions reported (413)	15,127

NOTE: Institutions with same number of doctorate recipients are ranked alphabetically.

^b Excludes cases with unknown country/economy of origin.

TABLE S-14. Parental education attainment of doctorate recipients, by selected demographic characteristics and field of study: 2007

	_		tal education atta		A.I	
Demographic characteristics and field of study	All	High school or less	Some E college ^a	Baccalaureate degree	Advanced degree	Tota numbe
All doctorate recipients ^b						
Father's education ^c	100.0	27.2	13.3	26.3	33.3	42,18
Mother's education ^d	100.0	35.3	17.1	25.7	21.9	42,30
Sex						
Male						
Father's education	100.0	27.9	12.6	26.6	32.9	22,88
Mother's education	100.0	37.6	15.8	25.8	20.9	22,92
Female						,-
Father's education	100.0	26.3	14.1	25.9	33.7	19,29
Mother's education	100.0	32.5	18.7	25.6	23.1	19,37
Race/ethnicity (U.S. citizens and permanent residents)						
American Indian ^e						
Father's education	100.0	47.6	16.1	13.7	22.6	12
Mother's education	100.0	42.4	20.8	16.8	20.0	12
Asian ^f						
Father's education	100.0	19.6	9.6	29.2	41.6	2,23
Mother's education	100.0	33.5	12.3	30.3	24.0	2,23
Black						
Father's education	100.0	45.8	18.7	14.3	21.2	1,70
Mother's education	100.0	38.7	22.0	17.8	21.4	1,75
Hispanic						
Father's education	100.0	38.9	14.8	17.8	28.5	1,55
Mother's education	100.0	43.0	19.7	18.4	18.9	1,56
White						
Father's education	100.0	22.5	14.5	23.6	39.4	21,36
Mother's education	100.0	27.3	19.7	25.8	27.2	21,42
Multi-race						
Father's education	100.0	24.7	14.0	17.3	43.9	48
Mother's education	100.0	27.9	18.3	23.8	30.0	48
Citizenship						
U.S. citizen and permanent resident						
Father's education	100.0	24.8	14.4	23.0	37.8	27,85
Mother's education	100.0	29.5	19.2	25.2	26.2	27,97
Temporary visa holder						
Father's education	100.0	31.8	11.2	32.6	24.4	14,30
Mother's education	100.0	46.6	13.0	26.7	13.7	14,30
Broad field of study						
Life sciences ^g						
Father's education	100.0	24.9	13.6	26.6	34.9	9,56
Mother's education	100.0	32.6	17.4	26.6	23.3	9,59
Physical sciences ^h						
Father's education	100.0	24.9	12.6	29.1	33.3	7,13
Mother's education	100.0	35.0	16.0	26.4	22.6	7,13
Social sciences ⁱ						
Father's education	100.0	25.1	13.4	23.7	37.9	6,19
Mother's education	100.0	31.0	17.9	24.8	26.3	6,21
Engineering						
Father's education	100.0	24.5	12.1	33.4	30.0	6,83
Mother's education	100.0	37.7	14.6	30.0	17.8	6,83
Education						
Father's education	100.0	41.4	16.5	18.4	23.7	5,59
Mother's education	100.0	45.6	20.8	18.1	15.5	5,61

TABLE S-14. Parental education attainment of doctorate recipients, by selected demographic characteristics and field of study: 2007

		Paren	tal education a	attainment (percent)		
Demographic characteristics and field of study	All	High school or less	Some college ^a	Baccalaureate degree	Advanced degree	Total number
Humanities						
Father's education	100.0	23.3	11.7	22.8	42.2	4,448
Mother's education	100.0	28.7	16.7	26.1	28.4	4,463
Other fields						
Father's education	100.0	29.7	12.7	27.8	29.8	2,421
Mother's education	100.0	38.5	16.8	26.5	18.2	2,434

^a Includes those who have attended college, but not earned a bachelor's.

TABLE S-15. Highest educational attainment of either parent: Selected years, 1977-2007

Year	High school or less	Some college ^a	Baccalaureate degree	Advanced degree
1977	43.1	16.5	20.5	20.0
1982	39.4	15.8	21.6	23.2
1987	36.4	14.5	22.6	26.6
1992	31.4	15.4	20.9	32.3
1997	26.5	13.9	22.6	37.0
2002	23.6	13.5	22.9	40.1
2007 ^b	21.2	13.4	25.9	39.1

^a Includes those who have attended college, but not earned a bachelor's.

^b Includes Native Hawaiians or Other Pacific Islander and those of other/unknown race/ethnicity.

 $^{^{\}rm c}$ Total count excludes 333 (0.8%) cases who reported "not applicable" for father's education.

 $^{^{\}rm d}$ Total count excludes 275 (0.7%) cases who reported "not applicable" for mother's education.

^e Includes Alaska Natives.

^f Does not include Native Hawaiians or Other Pacific Islanders.

⁹ Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^h Includes mathematics and computer and information sciences.

¹Includes psychology.

 $^{^{\}rm b}$ In 2007 0.05% (n=201) doctorate recipients reported "not applicable" for both father's and mother's education.

TABLE S-16. Doctorate recipients who earned a master's degree, by whether related to field of doctorate, broad field of doctoral study, and demographic characteristics: 2007

	All doct	orates	Life sci	ences ^a	Phys scien		Social so	ciences ^c	Engine	eering	Educ	ation	Huma	nities	Other	fields
Demographic characteristic	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's	Master's	Related Master's
All fields	73.6	56.7	52.9	36.3	65.5	55.4	82.0	62.0	78.2	69.9	89.4	61.0	85.5	66.0	83.3	60.7
Sex																
Male	72.5	56.9	50.2	33.5	66.8	56.1	81.1	60.1	79.1	71.1	89.9	57.4	84.9	65.5	81.5	59.3
Female	75.1	56.6	55.5	39.1	62.2	53.5	82.7	63.4	75.1	65.5	89.2	62.7	86.3	66.6	85.5	62.3
Citizenship status																
U.S. citizen and permanent resident	76.1	58.4	48.9	35.5	60.9	52.4	86.8	67.3	76.5	69.7	95.6	65.5	91.5	71.5	91.2	68.3
Temporary visa holder	81.9	65.4	69.6	45.0	77.5	65.8	89.5	64.5	87.2	78.5	93.0	66.2	88.5	68.4	88.5	64.0
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^d	78.0	61.7	56.7	40.0	D	D	79.5	59.0	D	D	94.4	80.6	85.7	D	100.0	D
Asian ^e	72.2	55.9	49.3	34.4	69.3	58.5	87.0	63.4	78.1	72.5	92.4	61.4	94.1	72.3	90.6	65.4
Black	83.0	59.4	59.2	44.9	64.8	51.4	87.5	61.0	74.7	72.5	93.9	64.2	90.3	59.5	84.5	63.2
Hispanic	76.2	57.4	43.9	30.6	57.7	51.3	81.4	61.4	83.3	74.6	95.3	64.0	91.3	72.4	92.5	67.5
White	76.1	58.7	48.9	35.6	59.9	51.7	87.5	69.0	75.9	68.8	96.3	66.3	91.6	72.2	92.3	69.4
Multi-race	74.6	58.1	36.0	29.7	D	D	84.3	63.6	D	70.2	96.2	61.5	94.2	76.8	95.8	D
Other/unknown ^f	67.6	51.0	47.4	31.9	58.9	50.0	77.2	60.8	71.9	D	82.7	50.0	82.9	D	72.7	D

D = suppressed to avoid disclosure of confidential information.

NOTE: Percentages based on total number of doctorate recipients.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

d Includes Alaska Natives.

^e Does not include Native Hawaiians or Other Pacific Islanders.

f Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE S-17. Doctorate recipients who attended community college, by broad field of study and demographic characteristics: 2007

		Life	Physical	Social				
Demographic characteristic	All doctorates	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
All doctorate recipients	12.5	13.9	8.6	14.4	5.8	21.3	11.9	12.1
Sex								
Male	11.1	13.8	8.5	14.0	5.7	21.4	13.1	10.0
Female	14.1	14.0	8.8	14.7	6.1	21.2	10.8	14.3
Citizenship status								
U.S. citizen and permanent resident	19.4	20.3	16.8	19.5	15.0	24.9	14.9	19.9
Temporary visa holder	1.9	2.0	1.2	2.0	1.5	5.3	3.3	2.2
Race/ethnicity (U.S. citizens and permanent residents)								
American Indian ^d	36.9	36.7	D	38.5	D	41.7	D	D
Asian ^e	12.4	12.5	14.8	13.0	9.1	19.6	8.4	8.7
Black	18.7	17.8	12.7	19.2	15.4	22.8	9.7	18.7
Hispanic	25.8	24.9	21.2	25.1	17.5	34.2	21.7	31.3
White	19.6	21.1	17.1	19.4	15.7	24.6	15.1	20.3
Multi-race	22.6	23.4	D	19.0	D	23.1	18.8	D
Other/unknown ^f	15.5	19.8	10.0	17.7	14.1	26.9	D	D

D = suppressed to avoid disclosure of confidential information.

NOTE: Percentages based on total number of doctorate recipients.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Includes Alaska Natives.

^e Does not include Native Hawaiians or Other Pacific Islanders.

f Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

TABLE S-18. Median number of years to doctorate award, by broad field of study: Selected years, 1982-2007

Field of study and time to degree	1982	1987	1992	1997	2002	2007
All fields						
Since baccalaureate	9.7	10.5	10.6	10.6	10.2	9.5
Since starting graduate school	8.0	8.7	8.7	8.7	8.6	7.8
Life sciences ^a						
Since baccalaureate	7.7	8.9	9.5	9.3	9.0	8.6
Since starting graduate school	6.7	7.2	7.9	7.7	7.4	7.0
Physical sciences ^b						
Since baccalaureate	7.0	7.5	8.1	8.1	7.8	7.8
Since starting graduate school	6.2	6.3	6.9	6.9	6.7	6.7
Social sciences ^c						
Since baccalaureate	9.3	10.5	10.8	10.1	10.0	9.6
Since starting graduate school	7.7	8.7	8.7	8.2	8.2	7.9
Engineering						
Since baccalaureate	8.0	8.2	8.9	8.8	8.6	7.9
Since starting graduate school	6.7	6.7	7.1	7.2	7.2	6.7
Education						
Since baccalaureate	13.7	16.2	19.0	20.0	19.0	16.6
Since starting graduate school	11.2	13.5	15.6	15.7	14.2	12.6
Humanities						
Since baccalaureate	11.3	12.2	12.0	11.7	11.6	11.4
Since starting graduate school	9.9	10.7	10.2	9.7	9.7	9.7
Other fields						
Since baccalaureate	11.7	12.7	13.6	13.7	13.4	12.3
Since starting graduate school	9.7	10.2	10.9	10.7	10.7	9.7

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE S-19. Median number of years to doctorate award, by selected demographic group and broad field of study: 2007

Time to degree and	All fi	elds	Life sci	ences ^a	Physical s	sciences ^D	Social s	ciences ^c	Engine	eering	Educ	ation	Huma	nities	Other	fields
demographic characteristics	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number	Median	Number
Time to baccalaureate (years)																
All doctorate recipients ^d	9.5	43,518	8.6	9,714	7.8	7,250	9.6	6,492	7.9	6,994	16.6	5,811	11.4	4,646	12.3	2,611
Sex																
Male	9.1	23,630	8.5	4,684	7.8	5,179	9.9	2,690	8.0	5,526	16.4	1,897	11.3	2,378	12.4	1,276
Female	10.0	19,878	8.7	5,029	7.6	2,066	9.5	3,801	7.7	1,465	16.7	3,914	11.5	2,268	12.3	1,335
Citizenship																
U.S. citizen and permanent resident ^e	10.0	28,573	8.3	6,741	7.0	3,720	9.7	4,992	7.3	2,485	17.3	5,163	11.6	3,827	14.3	1,645
Temporary visa holder	8.9	14,236	9.1	2,843	8.4	3,412	9.4	1,396	8.2	4,383	11.5	558	10.8	729	10.5	915
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^f	12.0	132	D	D	8.1	9	11.5	36	D	D	17.3	35	12.1	12	D	D
Asian ^g	9.5	2,239	9.0	691	8.3	367	9.7	313	8.0	387	13.2	169	12.0	194	12.0	118
Black	12.0	1,873	9.0	307	8.7	136	11.0	313	7.0	91	16.0	695	11.7	180	15.8	151
Hispanic	10.3	1,600	8.0	341	7.3	150	10.0	326	7.6	126	15.0	328	11.7	250	15.6	79
White	10.0	21,771	8.2	5,165	7.0	2,916	9.6	3,820	7.0	1,765	18.0	3,814	11.6	3,055	14.5	1,236
Multi-race	9.3	497	7.6	108	6.9	58	9.6	115	6.5	47	17.6	76	10.3	69	15.0	24
Years in graduate school																
All doctorate recipients ^h Sex	7.8	42,505	7.0	9,552	6.7	7,217	7.9	6,281	6.7	6,893	12.6	5,596	9.7	4,492	9.7	2,474
Male	7.7	23,189	6.9	4.626	6.8	5.178	8.0	2,610	6.8	5.447	12.7	1,847	9.3	2.278	9.7	1,203
Female	8.2	19,313	7.0	4,926	6.3	2,037	7.7	3,671	6.7	1,445	12.7	3,749	9.7	2,214	9.6	1,271
Citizenship	0.2	10,010	7.0	7,520	0.0	2,001	1.1	0,071	0.1	1,440	12.0	0,140	0.1	2,217	0.0	1,271
U.S. citizen and permanent resident ^e	8.0	28,034	6.7	6,689	6.2	3,709	7.9	4,861	6.3	2,452	13.0	5,017	9.7	3,735	10.9	1,571
Temporary visa holder	7.7	14,234	7.7	2,822	7.3	3,466	8.0	1,387	7.0	4,397	8.7	551	8.9	726	8.3	885
Race/ethnicity (U.S. citizens and permanent residents)																
American Indian ^f	9.3	124	D	D	D	D	D	D	7.3	7	13.7	31	D	D	D	D
Asian ^g	7.7	2,226	7.2	681	6.7	368	8.0	315	6.9	385	10.5	168	10.3	189	10.0	120
Black	9.7	1,786	7.3	293	7.3	131	9.0	293	6.2	91	12.0	671	10.1	176	11.3	131
Hispanic	8.3	1,563	6.7	343	D	D	8.0	303	D	D	11.8	322	9.9	247	11.7	73
White	7.9	21,433	6.7	5,137	6.0	2,917	7.7	3,739	6.3	1,751	13.6	3,710	9.7	2,983	10.9	1,196
Multi-race	7.7	495	D	D	6.2	58	D	D	D	D	D	D	8.7	69	D	D

D = suppressed to avoid disclosure of confidential information.

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

 $^{^{\}rm d}$ Includes only cases with a valid year of bachelor's award.

^e Includes those of other/unknown race/ethnicity, not shown separately.

F Includes Alaska Natives.

⁹ Does not include Native Hawaiians or Other Pacific Islanders.

^h Includes only cases with a valid year of graduate entry.

TABLE S-20. Median age and number of doctorate recipients at different age groups, by field of study and demographic characteristics: 2007

Field of study and	Median age			Age			
demographic characteristics	at doctorate ^a	25 and under	26-30	31–35	36–40	41–45	Over 45
All fields	32.5	306	16,595	13,570	5,923	2,979	5,085
Broad field of study							
Life sciences ^b	31.4	62	4,473	3,151	1,078	491	691
Physical sciences ^c	30.3	110	4,088	2,159	641	231	221
Social sciences ^d	32.8	25	2,329	2,239	959	451	654
Engineering	30.7	84	3,699	2,230	652	219	193
Education	41.3	11	540	1,208	1,148	856	2,179
Humanities	34.8	D	963	1,747	947	424	639
Other fields	35.8	D	503	836	498	307	508
Sex							
Male	32.2	184	9,455	7,782	3,296	1,532	1,910
Female	33.0	122	7,140	5,787	2,627	1,446	3,175
Citizenship							
U.S. citizen and permanent resident ^e	33.2	181	10,325	7,599	3,979	2,330	4,726
Temporary visa holder	31.7	123	6,134	5,826	1,893	614	308
Race/ethnicity (U.S. citizens and permanent residents)							
American Indian ^f	38.1	D	27	30	29	D	36
Asian ^g	32.1	29	922	729	323	143	147
Black	36.3	5	452	482	309	205	475
Hispanic	33.9	D	504	454	265	160	249
White	33.1	134	8,050	5,647	2,945	1,718	3,691
Multi-race	32.2	D	199	136	53	43	71

D = suppressed to avoid disclosure of confidential information.

^a Includes only doctorate recipients with a valid year of birth.

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer and information sciences.

^d Includes psychology.

^e Includes those of other/unknown race/ethnicity, not shown separately.

f Includes Alaska Natives.

⁹ Does not include Native Hawaiians or Other Pacific Islanders.

TABLE S-21. Doctorate recipients indicating one or more disabilities, by selected demographic characteristics: 2007

	disab	r more ilities / type	Blind/v impa	,	ortho	sical/ pedic bility	Deaf		Lear cogr disa		Vocal/s		unspe	ner/ ecified bility
Demographic characteristic	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All doctorate recipients ^a	662	1.4	61	0.1	240	0.5	90	0.2	203	0.4	13	*	112	0.2
Field of study														
Life sciences ^b	123	1.2	14	0.1	40	0.4	21	0.2	40	0.4	5	*	18	0.2
Physical sciences ^c	61	8.0	6	0.1	16	0.2	7	0.1	27	0.3	D	D	6	0.1
Social sciencesd	140	1.9	12	0.2	44	0.6	16	0.2	47	0.7	D	D	29	0.4
Engineering	41	0.5	D	D	14	0.2	D	D	11	0.1	D	D	6	0.1
Education	168	2.6	15	0.2	68	1.1	24	0.4	43	0.7	D	D	29	0.5
Humanities	89	1.7	8	0.2	40	8.0	12	0.2	23	0.4	D	D	18	0.4
Other fields	40	1.4	D	D	18	0.6	D	D	12	0.4	D	D	6	0.2
Sex														
Male	299	1.1	23	0.1	102	0.4	43	0.2	100	0.4	7	*	40	0.2
Female	363	1.7	38	0.2	138	0.6	47	0.2	103	0.5	6	*	72	0.3
Citizenship														
U.S. citizens and permanent residents	603	2.0	51	0.2	205	0.7	90	0.3	192	0.7	D	D	107	0.4
Temporary visa holders	55	0.4	9	0.1	33	0.2	D	D	10	0.1	D	D	5	*

^{* =} number rounds to zero (<0.05). D = suppressed to avoid disclosure of confidential information.

NOTE: Individual doctorate recipients could report more than one disability.

^a Total includes 4 doctorate recipients for whom citizenship is not reported.

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer sciences.

^d Includes psychology.

TABLE S-22. Primary source of financial support for doctorate recipients, by broad field of study and demographic group: 2007

				Citizens	hip						
				U.S. citizen and			Race/ethnicity (U.S. citizens a	and permanent re	esidents)	
Primary source of support and		Se	K	permanent	Temporary	American					
broad field of study	Total ^a	Male	Female	resident ^b	visa holder	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race
All fields	42,228	22,975	19,250	27,770	14,129	126	2,195	1,747	1,551	21,253	487
Teaching assistantships	17.6	18.2	17.0	16.0	20.8	15.9	13.9	7.4	12.8	17.1	15.4
Research assistantships/traineeships	31.0	36.7	24.2	20.6	51.4	7.9	31.3	10.1	14.4	20.8	22.0
Fellowships/grants	25.7	24.7	27.0	29.1	19.2	34.1	34.4	35.0	36.7	27.3	36.6
Own resources	20.4	14.8	27.0	28.5	4.5	34.9	15.6	40.6	32.6	28.7	22.8
Foreign government	1.3	1.5	1.0	0.2	3.5	D	0.5	D	D	0.1	D
Employer	3.8	3.9	3.7	5.5	0.6	5.6	4.0	6.4	3.4	5.8	D
Other	0.2	0.1	0.2	0.2	*	1.6	0.2	D	0.1	0.2	D
Life sciences ^e	9.560	4,615	4,945	6,657	2,840	25	684	300	344	5,097	108
Teaching assistantships	9.3	9.8	8.8	8.5	11.1	D	6.6	5.0	D	8.9	12.0
Research assistantships/traineeships	34.6	36.8	32.6	27.4	51.5	D	31.6	17.0	22.1	28.0	24.1
Fellowships/grants	41.1	41.3	40.8	45.9	29.9	48.0	50.3	53.7	57.6	44.1	50.0
Own resources	11.0	8.1	13.7	14.4	3.0	20.0	8.8	20.7	13.4	14.8	11.1
Foreign government	1.3	1.5	1.1	0.1	4.0	D	D	D	D	D	D
Employer	2.6	2.3	2.8	3.5	0.4	D	D	D	D	3.9	D
Other	0.2	0.2	0.1	0.3	0.0	D	D	0.3	0.0	D	0.0
Physical sciences ^f	7,148	5,119	2,028	3,650	3,437	8	359	130	153	2,868	56
Teaching assistantships	26.6	25.9	28.5	21.7	32.0	D	20.6	13.1	14.4	22.4	23.2
Research assistantships/traineeships	47.4	48.4	44.7	40.3	54.9	D	47.1	D	27.5	40.8	48.2
Fellowships/grants	18.9	17.9	21.4	26.8	10.4	D	20.9	44.6	46.4	25.7	28.6
Own resources	4.2	4.4	3.6	7.4	0.8	D	D	12.3	7.2	7.4	D
Foreign government	0.8	0.9	0.6	D	D	D	D	D	D	D	D
Employer	2.0	2.4	1.1	3.6	0.4	D	4.5	D	4.6	D	D
Other	0.1	0.1	0.1	D	D	0.0	0.0	D	0.0	D	0.0
Social sciences ⁹	6,222	2,587	3,635	4,812	1,363	36	303	289	297	3,710	115
Teaching assistantships	24.1	28.1	21.3	21.5	33.5	19.4	22.4	9.7	12.5	23.3	14.8
Research assistantships/traineeships	16.5	15.7	17.1	15.6	19.8	D	16.8	D	13.5	16.4	D
Fellowships/grants	26.9	27.8	26.3	25.4	32.4	30.6	33.7	33.9	32.0	23.2	39.1
Own resources	28.8	23.4	32.7	34.7	7.6	D	24.8	43.6	39.7	34.4	32.2
Foreign government	1.4	2.1	0.9	0.2	5.8	D	D	D	D	D	D
Employer	2.1	2.7	1.6	2.4	0.7	D	D	4.8	2.4	D	D
Other	0.2	0.1	0.2	0.1	0.2	0.0	0.3	0.0	0.0	0.2	0.0
Engineering	6.833	5,414	1,418	2,434	4,339	7	375	85	121	1,748	45
Teaching assistantships	8.3	8.3	8.5	5.4	10.0	D	D	7.1	5.8	5.2	D
Research assistantships/traineeships	63.5	64.4	60.0	42.9	75.1	D	52.3	24.7	33.1	42.4	53.3
Fellowships/grants	18.3	16.7	24.5	33.6	9.8	D	25.9	62.4	41.3	32.8	35.6
Own resources	4.3	4.7	2.8	8.5	2.0	D	6.4	D	12.4	9.1	D
Foreign government	D	1.8	1.8	D	D	D	D	D	D	D	D
Employer	3.7	4.1	2.2	D	D	D	8.3	D	7.4	10.1	D
Other	D	*	0.1	D	D	0.0	D	0.0	0.0	D	0.0

TABLE S-22. Primary source of financial support for doctorate recipients, by broad field of study and demographic group: 2007

				Citizensl	nip						
				U.S. citizen and			Race/ethnicity (U.S. citizens a	nd permanent re	sidents)	
Primary source of support and	=	Se		permanent	Temporary	American					
broad field of study	Total ^a	Male	Female	resident ^b	visa holder	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race
Education	5,583	1,821	3,762	4,987	558	34	168	649	324	3,696	73
Teaching assistantships	7.8	7.5	8.0	6.7	17.6	2.9	D	D	6.2	7.4	6.8
Research assistantships/traineeships	10.0	8.7	10.6	8.0	28.0	2.9	16.7	5.4	6.5	8.0	15.1
Fellowships/grants	10.7	9.6	11.2	10.1	15.6	20.6	17.3	17.7	15.7	7.8	9.6
Own resources	58.4	57.4	58.9	62.1	25.1	61.8	50.6	62.6	65.4	62.4	58.9
Foreign government	1.3	2.0	1.0	0.1	12.0	D	D	D	D	D	D
Employer	11.6	14.6	10.2	12.7	1.8	D	5.4	10.3	5.9	14.2	D
Other	0.3	0.3	0.2	0.3	0.0	0.0	0.0	D	0.3	D	D
Humanities	4,444	2,239	2,204	3,694	714	12	189	168	239	2,961	69
Teaching assistantships	35.2	35.8	34.6	34.3	39.2	D	25.9	16.7	35.6	35.8	D
Research assistantships/traineeships	2.1	1.7	2.5	1.9	3.4	D	D	D	D	1.9	D
Fellowships/grants	34.3	34.1	34.6	33.0	41.2	41.7	40.2	54.2	34.7	30.8	47.8
Own resources	26.0	25.6	26.4	28.7	12.7	D	25.9	D	27.6	29.4	21.7
Foreign government	0.7	1.0	0.5	D	D	D	D	D	D	0.2	D
Employer	1.4	1.6	1.3	D	D	D	3.7	D	D	1.7	D
Other	0.2	0.2	0.2	0.2	0.0	0.0	0.5	0.6	0.4	0.2	0.0
Other fields	2,438	1,180	1,258	1,536	878	4	117	126	73	1,173	21
Teaching assistantships	23.9	24.4	23.4	20.2	30.2	D	25.6	11.1	D	20.7	38.1
Research assistantships/traineeships	15.0	14.1	15.8	10.7	22.7	D	D	8.7	D	10.6	D
Fellowships/grants	22.4	24.7	20.3	18.8	28.8	D	28.2	28.6	28.8	15.9	33.3
Own resources	31.1	27.3	34.6	41.9	12.0	D	D	41.3	52.1	44.2	D
Foreign government	D	2.3	1.1	D	D	D	D	D	D	D	D
Employer	5.7	6.9	4.6	7.9	2.1	D	4.3	10.3	D	8.3	D
Other	D	0.3	0.2	D	D	D	0.0	0.0	0.0	D	D

^{* =} number rounds to zero (<0.05). D = suppressed to avoid disclosure of confidential information.

NOTE: Includes only doctorate recipients who reported a primary source of support.

^a Total includes 3 doctorate recipients for whom sex was not reported, 330 missing citizenship information, and 411 U.S. citizens and permanent residents with missing race/ethnicity (n=141) or racial/ethnic identifications other than those listed here (n=270).

^b Includes those of other/unknown race/ethnicity, not reported separately.

^c Includes Alaska Natives.

^d Does not include Native Hawaiians or Other Pacific Islanders.

^e Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

f Includes mathematics and computer and information sciences.

^g Includes psychology.

TABLE S-23. Education-related debt of doctorate recipients, by broad field of study: 2007

	Tota	3l	Life scie	nces	Physical so	ciences ⁰	Social sci	ences ^c	Engine	ering	Educa	tion	Human	ities	Other f	ields
Cumulative debt																
Mean	\$17,1	31	\$15,2	.03	\$10,1	67	\$26,9	68	\$9,6	65	\$21,1	93	\$23,0	63	\$20,3	356
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	22,660	52.6	5,125	52.7	4,603	63.4	2,417	38.0	4,693	67.6	2,756	47.9	1,821	39.9	1,245	49.5
\$10,000 or less	4,516	10.5	1,048	10.8	798	11.0	610	9.6	702	10.1	587	10.2	543	11.9	228	9.1
\$10,001-\$20,000	3,731	8.7	997	10.3	625	8.6	573	9.0	469	6.8	422	7.3	442	9.7	203	8.1
\$20,001-\$30,000	2,793	6.5	695	7.2	419	5.8	465	7.3	326	4.7	344	6.0	385	8.4	159	6.3
\$30,001-\$40,000	1,933	4.5	511	5.3	210	2.9	358	5.6	167	2.4	288	5.0	270	5.9	129	5.1
\$40,001-\$50,000	1,604	3.7	346	3.6	156	2.1	363	5.7	122	1.8	271	4.7	240	5.3	106	4.2
\$50,001-\$60,000	1,674	3.9	307	3.2	136	1.9	433	6.8	134	1.9	304	5.3	235	5.2	125	5.0
\$60,001-\$70,000	1,216	2.8	245	2.5	107	1.5	277	4.4	98	1.4	221	3.8	178	3.9	90	3.6
\$70,001 or more	2,981	6.9	445	4.6	205	2.8	867	13.6	229	3.3	556	9.7	448	9.8	231	9.2
Total	43,108	100.0	9,719	100.0	7,259	100.0	6,363	100.0	6,940	100.0	5,749	100.0	4,562	100.0	2,516	100.0
Graduate debt																
Mean	\$11,7	60	\$9,02	24	\$5,64	19	\$20,3	55	\$5,9	05	\$16,1	94	\$16,6	17	\$15,4	62
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	27,861	64.9	6,731	69.5	5,591	77.2	3,158	49.8	5,351	77.4	3,222	56.3	2,360	52.0	1,448	57.7
\$10,000 or less	3,588	8.4	818	8.4	605	8.4	514	8.1	536	7.8	471	8.2	452	10.0	192	7.7
\$10,001-\$20,000	2,469	5.7	537	5.5	314	4.3	400	6.3	325	4.7	358	6.3	369	8.1	166	6.6
\$20,001-\$30,000	1,791	4.2	374	3.9	185	2.6	346	5.5	166	2.4	296	5.2	287	6.3	137	5.5
\$30,001-\$40,000	1,469	3.4	317	3.3	146	2.0	307	4.8	124	1.8	239	4.2	222	4.9	114	4.5
\$40,001-\$50,000	1,241	2.9	219	2.3	113	1.6	290	4.6	101	1.5	262	4.6	169	3.7	87	3.5
\$50,001-\$60,000	1,598	3.7	252	2.6	117	1.6	445	7.0	118	1.7	303	5.3	231	5.1	132	5.3
\$60,001-\$70,000	984	2.3	168	1.7	63	0.9	266	4.2	80	1.2	199	3.5	136	3.0	72	2.9
\$70,001 or more	1,950	4.5	269	2.8	104	1.4	618	9.7	114	1.6	370	6.5	314	6.9	161	6.4
Total	42,951	100.0	9,685	100.0	7,238	100.0	6,344	100.0	6,915	100.0	5,720	100.0	4,540	100.0	2,509	100.0
Undergraduate debt																
Mean	\$5,45		\$6,23		\$4,55		\$6,73		\$3,7		\$5,14		\$6,58		\$5,00	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No debt	31,548	73.7	6,711	69.4	5,441	75.2	4,299	68.2	5,623	81.3	4,441	78.2	3,087	68.2	1,946	78.5
\$10,000 or less	3,417	8.0	814	8.4	596	8.2	584	9.3	426	6.2	380	6.7	472	10.4	145	5.8
\$10,001-\$20,000	3,246	7.6	951	9.8	570	7.9	593	9.4	334	4.8	264	4.6	384	8.5	150	6.0
\$20,001-\$30,000	2,034	4.8	573	5.9	320	4.4	350	5.6	262	3.8	200	3.5	246	5.4	83	3.3
\$30,001-\$40,000	1,142	2.7	319	3.3	151	2.1	202	3.2	105	1.5	167	2.9	136	3.0	62	2.5
\$40,001-\$50,000	674	1.6	145	1.5	85	1.2	131	2.1	79	1.1	103	1.8	96	2.1	35	1.4
\$50,001–\$60,000	397	0.9	90	0.9	42	0.6	73	1.2	51	0.7	58	1.0	50	1.1	33	1.3

TABLE S-23. Education-related debt of doctorate recipients, by broad field of study: 2007

Debt level	Total		Life scien	ces ^a	Physical sci	ences ^b	Social scie	nces ^c	Enginee	ring	Educati	on	Humani	ies	Other fie	elds
\$60,001–\$70,000	200	0.5	42	0.4	21	0.3	33	0.5	18	0.3	42	0.7	30	0.7	14	0.6
\$70,001 or more	155	0.4	31	0.3	8	0.1	37	0.6	18	0.3	26	0.5	23	0.5	12	0.5
Total	42,813	100.0	9,676	100.0	7,234	100.0	6,302	100.0	6,916	100.0	5,681	100.0	4,524	100.0	2,480	100.0

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: Mean calculations are based on all valid responses to the debt item. See appendix A for details on calculations of means.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

TABLE S-24. Education-related debt of doctorate recipients, by demographic group: 2007

						Citize	nship													
		_			U.S. citiz															
D.111. 1		Se		-1-	perma	_	Temp	•		h			ethnicity (U		- '			11-	8.4 10	
Debt level	Mal	е	Fem	ale	resid	ent	visa h	older	American	Indian⁵	Asia	an°	Bla	iCK	Hisp	anic	Wh	ite	Multi	-race
Cumulative debt																				
Mean	\$15,6	21	\$18,	938	\$21,		\$7,9	973	\$28,4		\$13,	388	\$37,		\$27,	405	\$20,	802	\$24	,301
			Number	Percent	Number			Percent	Number F		Number	Percent			Number	Percent			Number	
No debt	12,784	54.5	9,874	50.3	12,002	42.3	10,494	72.8	47	35.9	1,320	58.5	463	25.3	516	32.7	9,311	43.0	181	36.
\$10,000 or less	2,623	11.2	1,893	9.6	2,995	10.6	1,487	10.3	13	9.9	212	9.4	170	9.3	189	12.0	2,307	10.6	62	12.4
\$10,001–\$20,000	2,029	8.6	1,702	8.7	2,990	10.5	715	5.0	10	7.6	214	9.5	154	8.4	170	10.8	2,336	10.8	56	11.2
\$20,001-\$30,000	1,476	6.3	1,317	6.7	2,386	8.4	390	2.7	11	8.4	139	6.2	130	7.1	134	8.5	1,880	8.7	46	9.2
\$30,001-\$40,000	961	4.1	972	4.9	1,649	5.8	267	1.9	10	7.6	86	3.8	125	6.8	99	6.3	1,267	5.8	34	6.8
\$40,001-\$50,000	814	3.5	790	4.0	1,382	4.9	210	1.5	8	6.1	70	3.1	105	5.7	110	7.0	1,041	4.8	31	6.2
\$50,001-\$60,000	784	3.3	890	4.5	1,428	5.0	237	1.6	10	7.6	73	3.2	151	8.2	100	6.3	1,059	4.9	19	3.8
\$60,001-\$70,000	620	2.6	596	3.0	1,008	3.6	196	1.4	6	4.6	36	1.6	115	6.3	63	4.0	748	3.5	20	4.0
\$70,001 or more	1,377	5.9	1,604	8.2	2,534	8.9	427	3.0	16	12.2	105	4.7	420	22.9	199	12.6	1,716	7.9	52	10.4
Total	23,468	100.0	19,638	100.0	28,374	100.0	14,423	100.0	131	100.0	2,255	100.0	1,833	100.0	1,580	100.0	21,665	100.0	501	100.0
Graduate debt																				
Mean	\$10,3	64	\$13,	429	\$14,	785	\$5,8	328	\$19,0)77	\$8,4	163	\$27,	506	\$18,	615	\$14,	063	\$16	,026
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percen
No debt	15,596	66.7	12,263	62.6	16,518	58.5	11,144	77.4	62	47.7	1,635	72.8	689	37.9	790	50.2	12,832	59.5	272	54.7
\$10,000 or less	2,101	9.0	1,487	7.6	2,358	8.3	1,204	8.4	16	12.3	143	6.4	161	8.9	142	9.0	1,815	8.4	44	8.8
\$10,001-\$20,000	1,350	5.8	1,119	5.7	1,823	6.5	627	4.4	10	7.7	123	5.5	111	6.1	120	7.6	1,397	6.5	36	7.2
\$20,001-\$30,000	924	4.0	867	4.4	1,483	5.3	295	2.0	7	5.4	85	3.8	110	6.1	90	5.7	1,127	5.2	35	7.0
\$30,001-\$40,000	712	3.0	757	3.9	1,187	4.2	269	1.9	5	3.8	59	2.6	100	5.5	75	4.8	909	4.2	19	3.8
\$40,001-\$50,000	608	2.6	633	3.2	1,042	3.7	190	1.3	7	5.4	41	1.8	99	5.4	79	5.0	785	3.6	20	4.0
\$50,001-\$60,000	757	3.2	841	4.3	1,324	4.7	266	1.8	D	D	64	2.9	159	8.7	94	6.0	968	4.5	21	4.2
\$60,001-\$70,000	504	2.2	480	2.5	804	2.8	171	1.2	D	D	24	1.1	109	6.0	61	3.9	576	2.7	14	2.8
\$70,001 or more	823	3.5	1,127	5.8	1,705	6.0	232	1.6	14	10.8	71	3.2	280	15.4	123	7.8	1,165	5.4	36	7.2
Total	23,375	100.0	19,574	100.0	28,244	100.0	14,398	100.0	130	100.0	2,245	100.0	1,818	100.0	1,574	100.0	21,574	100.0	497	100.0
Undergraduate debt																				
Mean	\$5,33	31	\$5,5	96	\$7,1	23	\$2,1	166	\$9,5	04	\$4,9	984	\$10,	759	\$8,9	923	\$6,8	349	\$8,	522
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number F	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percen
No debt	17,273	74.1	14,273	73.2	18,624	66.2	12,691	88.4	80	61.1	1,673	74.5	1,071	59.3	923	58.8	14,329	66.6	290	58.7
\$10,000 or less	1,909	8.2	1,508	7.7	2,653	9.4	743	5.2	17	13.0	173	7.7	153	8.5	208	13.3	2,006	9.3	63	12.8
\$10,001-\$20,000	1,692	7.3	1,554	8.0	2,878	10.2	348	2.4	9	6.9	186	8.3	177	9.8	156	9.9	2,237	10.4	65	13.2
\$20,001-\$30,000	1,078	4.6	956	4.9	1,822	6.5	200	1.4	7	5.3	105	4.7	132	7.3	111	7.1	1,407	6.5	29	5.9
\$30,001-\$40,000	591	2.5	551	2.8	983	3.5	150	1.0	8	6.1	49	2.2	112	6.2	68	4.3	707	3.3	20	4.0
\$40,001–\$50,000	366	1.6	308	1.6	571	2.0	101	0.7	D	D	24	1.1	69	3.8	55	3.5	399	1.9	14	2.8
\$50,001–\$60,000	229	1.0	168	0.9	328	1.2	64	0.4	D	D	24	1.1	42	2.3	24	1.5	224	1.0	D	

TABLE S-24. Education-related debt of doctorate recipients, by demographic group: 2007

						Citizer	nship													
		Se	X		U.S. citize permar		Tempo	rary				Race/et	hnicity (U.	S. citizens	and perma	anent resi	dents)			
Debt level	Male	е	Fema	ale	reside	nt ^a	visa ho	lder	American	Indian ^b	Asia	n ^c	Blac	k	Hispa	nic	Whit	te	Multi-r	ace
\$60,001–\$70,000	117	0.5	83	0.4	163	0.6	36	0.3	D	D	D	D	31	1.7	13	0.8	106	0.5	D	D
\$70,001 or more	68	0.3	87	0.4	131	0.5	20	0.1	D	D	D	D	18	1.0	11	0.7	88	0.4	D	D
Total	23,323	100.0	19,488	100.0	28,153	100.0	14,353	100.0	131	100.0	2,245	100.0	1,805	100.0	1,569	100.0	21,503	100.0	494	100.0

D = suppressed to avoid disclosure of confidential information.

NOTES: Mean calculations are based on all valid responses to the debt item. See appendix A for details on calculations of means.

^a Includes those of other/unknown race/ethnicity, not shown separately.

^b Includes Alaska Natives.

^c Does not include Native Hawaiians and Other Pacific Islanders.

TABLE S-25. U.S. citizen and permanent resident doctorate recipients reporting graduate-school debt and percentage with levels of graduate-school debt greater than \$30,000, by broad field of study and race/ethnicity: 2007

	To	tal	America	n Indian ^a	Asi	an ^b	Bla	ick	Hisp	anic	Wh	nite	Multi	-race	Other/u	nknown ^c
Broad field of study	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All fields	28,244	21.5	130	26.9	2,245	11.5	1,818	41.1	1,574	27.4	21,574	20.4	497	22.1	406	18.7
Life sciences ^d	6,741	14.9	27	D	703	9.2	302	32.1	343	17.8	5,161	14.5	108	13.9	97	D
Physical sciences ^e	3,685	9.9	8	D	360	5.3	134	22.4	152	10.5	2,899	9.8	57	D	75	D
Social sciences ^f	4,898	36.2	35	45.7	309	24.9	297	54.9	301	40.2	3,773	35.4	118	35.6	65	24.6
Engineering	2,450	7.7	7	D	380	5.0	89	10.1	121	14.0	1,756	7.6	46	D	51	D
Education	5,113	24.9	35	20.0	174	20.1	685	46.0	332	35.2	3,771	20.5	76	26.3	40	17.5
Humanities	3,776	26.6	13	46.2	197	14.2	176	40.9	249	27.7	3,015	26.4	69	26.1	57	28.1
Other fields	1,581	28.7	5	D	122	13.1	135	45.2	76	40.8	1,199	27.5	23	D	21	38.1

D = suppressed to avoid disclosure of confidential information.

NOTES: Number cells represent the total number of U.S. citizen and permanent resident doctorate recipients reporting graduate school debt. Percentage cells represent doctorate recipients with levels of graduate school debt greater than \$30,000 and are calculated on the number of cases listed in the adjacent cell.

^a Includes Alaska Natives.

^b Does not include Native Hawaiians and Other Pacific Islanders.

^c Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

^d Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^e Includes mathematics and computer and information sciences.

f Includes psychology.

TABLE S-26. Postgraduation commitment of doctorate recipients, by broad field of study: Selected years, 1987–2007

		Life	Physical	Social				
Commitment status	All fields	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
				Num	ber			
All doctorate recipients								
1987	32,365	5,783	5,000	5,988	3,712	6,453	3,299	2,130
1992	38,886	7,172	6,444	6,481	5,438	6,677	4,176	2,498
1997	42,539	8,421	6,581	7,285	6,115	6,577	5,190	2,370
2002	40,025	8,479	5,604	6,826	5,081	6,503	5,221	2,311
2007	48,112	10,628	8,029	7,197	7,744	6,444	5,112	2,958
All responses to postgraduation commitment								
1987	29,281	5,334	4,520	5,336	3,256	5,957	2,977	1,901
1992	35,803	6,726	5,925	5,856	4,920	6,177	3,914	2,285
1997	37,872	7,631	5,923	6,332	5,577	5,701	4,619	2,089
2002	36,050	7,746	5,167	6,135	4,632	5,550	4,785	2,035
2007	43,329	9,767	7,319	6,395	6,956	5,784	4,568	2,540
				Pero	ent ^d			
Definite commitment for employment or postdoctoral study								
1987	72.9	75.8	76.7	69.6	68.1	74.2	66.1	80.4
1992	69.3	74.5	68.4	67.8	60.0	75.3	61.6	76.5
1997	67.4	71.1	69.5	64.4	65.3	72.9	56.2	73.1
2002	72.5	73.6	76.1	72.2	69.6	75.0	64.9	77.4
2007	68.7	66.2	72.3	72.5	64.8	71.7	63.1	72.8
No definite commitment for								
employment or postdoctoral study ^{e, f}								
1987	27.1	24.2	23.3	30.4	31.9	25.8	33.9	19.6
1992	30.7	25.5	31.6	32.2	40.0	24.7	38.4	23.5
1997	32.6	28.9	30.5	35.6	34.7	27.1	43.8	26.9
2002	27.5	26.4	23.9	27.8	30.4	25.0	35.1	22.6
2007	31.3	33.8	27.7	27.5	35.2	28.3	36.9	27.2

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percent calculated on those responding to the item on postgraduation commitment.

^e Includes respondents who indicated 'other' in all years and respondents who indicated "do not plan to work or study" in 2007.

f Includes 529 respondents for 2007 who indicated definite plans for "other full-time degree program."

TABLE S-27. Postgraduation commitment of doctorate recipients, by selected demographic groups: Selected years, 1987–2007

				Citizensl	nip ^a						
				U.S. citizen and		Race/e	ethnicity (U.	S. citizens	and perman	ent resider	nts) ^b
		Se	×	permanent	Temporary	American					
Commitment status	Total	Men	Women	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
					Nι	umber					
All doctorate recipients											
1987	32,365	20,934	11,431	24,568	5,660	115	1,169	906	710	21,120	na
1992 ^f	38,886	24,234	14,436	27,997	9,980	149	1,755	1,109	911	23,622	na
1997 ⁹	42,539	24,944	17,243	31,086	9,194	166	3,110	1,475	1,199	23,966	na
2002 ^h	40,025	21,808	18,136	27,711	9,747	150	2,119	1,756	1,370	21,442	274
2007 ⁱ	48,112	26,176	21,884	29,436	15,127	141	2,330	1,956	1,650	22,341	508
All responses to postgraduation commitment											
1987	29,281	18,783	10,498	23,999	5,265	112	1,100	880	692	20,776	na
1992	35,803	22,405	13,393	26,704	9,093	141	1,620	1,019	845	22,738	na
1997	37,872	22,492	15,362	29,165	8,648	155	2,879	1,387	1,092	23,011	na
2002	36,050	19,745	16,302	26,730	9,277	145	2,047	1,646	1,312	20,820	273
2007	43,329	23,560	19,768	28,615	14,611	131	2,284	1,839	1,593	21,841	506
					Pe	ercent ^j					
Definite commitment for employment or postdoctoral study											
1987	72.9	74.1	70.8	73.7	69.5	74.1	65.5	64.3	69.9	74.7	na
1992	69.3	68.6	70.3	72.2	60.6	70.2	60.6	69.6	68.5	73.4	na
1997	67.4	68.1	66.6	68.7	63.2	74.2	62.9	66.6	68.4	69.6	na
2002	72.5	73.8	70.9	73.2	70.5	75.9	68.2	67.7	71.6	74.3	68.9
2007	68.7	69.6	67.7	70.2	65.9	67.2	63.0	64.2	68.4	71.7	70.4
No definite commitment for											
employment or postdoctoral studyk											
1987	27.1	25.9	29.2	26.3	30.5	25.9	34.5	35.7	30.1	25.3	na
1992	30.7	31.4	29.7	27.8	39.4	29.8	39.4	30.4	31.5	26.6	na
1997	32.6	31.9	33.4	31.3	36.8	25.8	37.1	33.4	31.6	30.4	na
2002	27.5	26.2	29.1	26.8	29.5	24.1	31.8	32.3	28.4	25.7	31.1
2007	31.3	30.4	32.3	29.8	34.1	32.8	37.0	35.8	31.6	28.3	29.6

na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include Native Hawaiians or Other Pacific Islanders.

^c Includes those of other/unknown race/ethnicity, not shown separately.

^d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–07.

^f Group total for 1992 includes 216 doctorate recipients for whom sex was not reported.

⁹ Group total for 1997 includes 352 doctorate recipients for whom sex was not reported.

^h Group total for 2002 includes 81 doctorate recipients for whom sex was not reported.

ⁱ Group total for 2007 includes 52 doctorate recipients for whom sex was not reported.

^j Percent calculated on those responding to the item on postgraduation status.

^k Includes respondents who indicated 'other' in all years and respondents who indicated "do not plan to work or study" in 2007.

TABLE S-28. Postgraduation plans of doctorate recipients with definite commitments, by broad field of study: Selected years, 1987–2007

Definite commitments		Life	Physical	Social	•	•		
and plan	All fields	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
				Numb	er			
All definite commitments								
1987	21,360	4,042	3,469	3,715	2,216	4,421	1,968	1,529
1992	24,795	5,008	4,053	3,972	2,953	4,652	2,410	1,747
1997	25,541	5,424	4,117	4,078	3,644	4,156	2,595	1,527
2002	26,136	5,704	3,932	4,432	3,222	4,165	3,106	1,575
2007	29,781	6,468	5,294	4,637	4,506	4,145	2,881	1,850
Definite commitments with responses to type of plans								
1987	21,196	4,028	3,459	3,690	2,201	4,355	1,943	1,520
1992	24,635	4,998	4,046	3,952	2,944	4,565	2,388	1,742
1997	24,941	5,320	4,065	3,987	3,580	3,997	2,508	1,484
2002	26,029	5,691	3,920	4,415	3,213	4,142	3,090	1,558
2007	29,368	6,403	5,248	4,554	4,444	4.064	2,836	1,819
	-,	-,	-,	Percer	,	,	,	,
Employment				reicei	IL			
1987	74.2	40.6	51.3	83.6	80.2	96.1	93.6	96.6
1992	72.0	37.3	48.8	82.3	77.9	96.8	94.4	97.0
1997	71.6	38.9	53.2	78.8	79.3	96.3	93.5	97.0
2002	69.5	40.5	50.3	73.8	75.1	94.4	90.0	93.7
2007	63.8	34.5	46.7	67.0	68.4	94.0	87.6	92.5
Postdoctoral study								
1987	25.8	59.4	48.7	16.4	19.8	3.9	6.4	3.4
1992	28.0	62.7	51.2	17.7	22.1	3.2	5.6	3.0
1997	28.4	61.1	46.8	21.2	20.7	3.7	6.5	3.0
2002	30.5	59.5	49.7	26.2	24.9	5.6	10.0	6.3
2007	36.2	65.5	53.3	33.0	31.6	6.0	12.4	7.5

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percentages are based on the number reporting definite commitments with responses to type of plan (employment or postdoctoral study).

TABLE S-29. Employment sector of doctorate recipients with definite postgraduation employment commitments in the United States, by broad field of study: Selected years, 1987-2007

Employment		Life	Physical	Social				
commitments and sector	Total	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
				Numb	per			
All U.S. employment commitments								
1987	14,143	1,308	1,579	2,824	1,461	3,945	1,711	1,315
1992	15,632	1,478	1,720	2,874	1,807	4,179	2,079	1,495
1997	16,023	1,765	1,968	2,739	2,475	3,670	2,153	1,253
2002	16,283	1,966	1,789	2,882	2,063	3,732	2,568	1,283
2007	17,039	1,955	2,242	2,694	2,737	3,640	2,297	1,474
_				Perce	ent ^d			
Academe								
1987	50.4	51.3	40.0	45.2	31.9	43.8	81.4	73.8
1992	51.7	49.1	38.4	50.2	23.5	46.8	84.4	74.9
1997	45.9	45.2	29.2	49.8	12.9	46.4	79.3	70.3
2002	52.3	48.7	36.1	57.6	16.5	48.4	82.5	76.9
2007	51.1	47.7	35.5	60.7	13.5	51.6	84.9	77.9
Industry/business ^e								
1987	20.2	24.8	46.9	18.7	53.3	6.4	5.1	10.9
1992	20.9	25.0	49.8	17.1	60.9	5.6	3.5	9.2
1997	26.5	22.2	54.6	18.7	72.0	5.7	5.6	12.8
2002	24.0	28.2	52.7	17.0	71.1	5.3	4.8	10.8
2007	27.0	28.5	54.0	14.7	75.2	4.3	3.4	10.5
Government								
1987	10.1	16.4	10.1	13.6	12.7	9.4	3.0	5.2
1992	8.9	16.8	9.4	12.8	11.9	6.8	2.1	4.3
1997	7.3	11.0	7.9	10.7	10.4	4.8	2.0	4.5
2002	7.3	13.2	7.2	11.0	9.7	4.5	2.5	4.4
2007	6.0	11.5	5.5	9.9	7.3	3.4	1.7	3.5
Nonprofit								
1987	7.5	6.3	2.2	15.9	1.4	6.7	5.7	7.9
1992	6.8	7.6	1.5	12.7	2.4	5.6	6.3	9.8
1997	5.7	5.8	2.3	11.6	2.4	4.5	5.7	7.6
2002	5.7	7.5	2.9	9.7	2.0	5.1	5.4	6.5
2007	4.4	7.7	2.4	7.8	2.0	3.4	4.1	4.3
Other/unknown ^f								
1987	11.8	1.1	0.9	6.7	0.8	33.7	4.9	2.1
1992	11.8	1.4	0.9	7.2	1.3	35.1	3.7	1.9
1997	14.6	15.8	6.0	9.2	2.2	38.6	7.4	4.9
2002	10.6	2.3	1.2	4.6	0.7	36.7	4.8	1.4
2007	11.4	4.7	2.7	6.9	2.0	37.4	5.9	3.8

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d Percent based on those with definite employment commitments in the United States.

^e Includes doctorate recipients who indicated self-employment.

f "Other" is mainly composed of elementary and secondary schools.

TABLE S-30. Employment sector of doctorate recipients with definite postgraduation employment commitments in the United States, by selected demographic characteristics: Selected years, 1987–2007

			_	Citizensh	ip ^a						
			-	U.S. citizen and		Race	ethnicity (U	.S. citizen:	s and perma	nent reside	nts) ^b
Employment commitments and		S	ex	permanent	Temporary	American					
sector	Total	Male	Female	resident ^c	visa holder	Indiand	Asian ^e	Black	Hispanic	White	Multi-race
					Num	nber					
All employment commitments											
1987	14,143	8,634	5,509 0	13,095	1,043 0	65	419	471	358	11,569	na
1992 ^f	15,632	8,910	6,719 0	14,048	1,581 0	79	556	563	416	12,292	na
1997 ⁹	16,023	9,084	6,935 0	14,165	1,842 0	95	1,058	717	534	11,480	na
2002	16,283	8,530	7,753 0	13,765	2,505 0	88	804	853	668	10,999	122
2007	17,039	8,929	8,110 0	12,992	4,009 0	D	779	864	685	10,218	211
	,	-,	-,	,				-		,	
Academe					Perc	ent"					
	FO 4	40.0	F4.0	40.7	50.0	40.0	25.4	49.9	FO 4	FO 4	
1987	50.4	48.0	54.3	49.7	59.9	46.2	35.1		53.4	50.1	na
1992	51.7	47.4	57.4	51.5	53.4	55.7	38.1	52.8	58.4	51.8	na
1997	45.9	39.7	53.9	48.0	29.3	41.1	29.2	54.1	56.9	49.1	na
2002	52.3	47.4	57.6	54.4	40.8	60.2	35.0	52.6	59.4	55.5	59.0
2007	51.1	45.0	57.8	55.3	37.5	49.2	41.2	54.9	59.6	56.1	56.9
Industry/business ⁱ											
1987	20.2	24.6	13.3	19.6	27.7	18.5	47.3	8.7	13.1	19.1	na
1992	20.9	26.9	12.9	18.8	39.0	12.7	43.7	9.4	15.9	18.2	na
1997	26.5	35.1	15.3	22.0	61.6	18.9	50.0	11.0	15.5	20.4	na
2002	24.0	31.9	15.4	18.8	52.7	11.4	49.6	11.8	13.9	17.4	17.2
2007	27.0	36.5	16.6	18.4	55.2	D	42.4	10.4	13.0	17.7	D
Government											
1987	10.1	11.5	7.9	10.6	4.7	12.3	10.0	13.4	12.6	10.4	na
1992	8.9	9.8	7.6	9.6	2.1	11.4	9.4	9.8	8.7	9.6	na
1997	7.3	8.7	7.0 5.6	8.1	1.7	9.5	5.7	8.2	6.6	8.3	na
2002	7.3 7.3		6.2	8.3	2.0	8.0	7.2	7.2	9.3	8.4	10.7
		8.3									
2007	6.0	6.6	5.4	7.4	1.8	19.7	5.8	7.4	7.3	7.4	9.5
Nonprofit											
1987	7.5	6.4	9.1	7.9	2.5	6.2	3.3	5.9	8.7	8.1	na
1992	6.8	6.5	7.2	7.3	2.5	7.6	4.1	5.0	6.3	7.6	na
1997	5.7	5.2	6.3	6.1	2.3	6.3	4.0	4.9	5.1	6.4	na
2002	5.7	5.0	6.6	6.3	2.6	6.8	4.6	6.4	6.4	6.5	2.5
2007	4.4	3.4	5.5	5.0	2.5	D	4.4	4.9	4.5	5.1	D
Other/unknown ^j											
1987	11.8	9.5	15.4	12.3	5.2	16.9	4.3	22.1	12.3	12.2	na
1992	11.8	9.3	15.4	12.7	3.0	12.7	4.7	23.1	10.8	12.8	na
1997	14.6	11.3	18.9	15.8	5.0 5.1	24.2	11.2	21.8	15.9	15.8	na
2002	10.6	7.4	14.1	12.2	2.0	13.6	3.6	21.0	10.9	12.2	10.7
2007	11.4	8.4	14.8	14.0	3.1	18.0	6.3	22.5	15.6	13.8	14.2

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

^b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

^c Includes those of other/unknown race/ethnicity, not shown separately.

d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–07.

^f Total for 1992 includes 3 respondents not reporting sex.

⁹ Total for 1997 includes 4 respondents not reporting sex.

^h Percent based on those with definite employment commitments and sector.

ⁱ Includes doctorate recipients who indicated self-employment.

^j "Other" is mainly composed of elementary and secondary schools.

TABLE S-31. Postgraduation plans of doctorate recipients with definite commitments, by demographic group: Selected years, 1987–2007

				Citizensh	nip ^b						
				U.S. citizen and		Race/	ethnicity (U.	S. citizens	and perman	ent resider	ıts) ^c
		Se	x ^a	permanent	Temporary	American					
Definite commitments and plan	Total	Male	Female	resident d	visa holder	Indian ^e	Asian [†]	Black	Hispanic	White	Multi-race
_					Nur	mber					
All definite commitments											
1987	21,360	13,927	7,433	17,693	3,658	83	721	566	484	15,511	na
1992	24,795	15,378	9,412	19,284	5,506	99	981	709	579	16,698	na
1997	25,541	15,307	10,227	20,041	5,463	115	1,811	924	747	16,024	na
2002	26,136	14,574	11,561	19,568	6,541	110	1,397	1,115	939	15,477	188
2007	29,781	16,402	13,378	20,084	9,627	88	1,440	1,180	1,089	15,653	356
Definite commitments with											
responses to type of plans											
1987	21,196	13,834	7,362	17,573	3,615	82	720	555	479	15,412	na
1992	24,635	15,306	9,324	19,150	5,480	99	974	689	567	16,605	na
1997	24,941	14,977	9,960	19,578	5,330	111	1,775	886	725	15,673	na
2002	26,029	14,510	11,518	19,506	6,498	110	1,394	1,109	938	15,428	188
2007	29,368	16,196	13,171	19,772	9,532	86	1,421	1,148	1,068	15,426	352
_					Per	cent ^g					
Employment											
1987	74.2	71.9	78.7	76.1	65.3	79.3	66.0	86.3	77.5	76.3	na
1992	72.0	69.2	76.7	75.3	60.5	80.8	63.9	83.3	76.5	75.6	na
1997	71.6	69.7	74.3	74.4	61.3	88.3	63.0	81.9	77.1	75.1	na
2002	69.5	67.2	72.5	72.3	61.3	82.7	61.1	77.1	72.9	72.9	67.0
2007	63.8	61.8	66.3	67.1	57.0	D	57.3	76.1	64.6	67.6	61.9
Postdoctoral study											
1987	25.8	28.1	21.3	23.9	34.7	20.7	34.0	13.7	22.5	23.7	na
1992	28.0	30.8	23.3	24.7	39.5	19.2	36.1	16.7	23.5	24.4	na
1997	28.4	30.3	25.7	25.6	38.7	11.7	37.0	18.1	22.9	24.9	na
2002	30.5	32.8	27.5	27.7	38.7	17.3	38.9	22.9	27.1	27.1	33.0
2007	36.2	38.2	33.7	32.9	43.0	D	42.7	23.9	35.4	32.4	38.1

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom sex was not reported.

^b Does not include doctorate recipients for whom citizenship was not reported.

^c Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

^d Includes those of other/unknown race/ethnicity, not shown separately.

e Includes Alaska Natives.

f Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–07.

⁹ Percentages are based on the number reporting definite commitments with responses to type of plan (employment or postdoctoral study).

TABLE S-32. Sources of support for doctorate recipients with postgraduation commitment for postdoctoral study, by selected demographic characteristics: Selected years, 1987–2007

				Citizensh	ip ^a						
				U.S. citizen and		F	Race/ethnicity (L	J.S. citizens a	and permanent r	esidents) ^b	
Postgraduate study commitment and		Se	ex	permanent	Temporary	American				·	
source of support	Total	Male	Female	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
					N	Number					
All postgraduate study											
commitments											
1987	5,463	3,892	1,571	4,204	1,256	17	245	76	108	3,659	na
1992 ^f	6,888	4,717	2,169	4,724	2,162	19	352	115	133	4,045	na
1997	7,095	4,537	2,558	5,019	2,061	13	657	160	166	3,909	na
2002	7,928	4,762	3,166	5,407	2,512	19	542	254	254	4,183	62
2007 ^g	10,627	6,190	4,436	6,508	4,095	D	607	274	378	5,001	134
					F	Percent ^h					
U.S. government						0.00					
1987	40.4	40.3	40.7	46.2	21.2	41.2	45.3	25.0	30.6	47.3	na
1992	35.5	34.9	36.9	43.5	17.9	26.3	32.7	27.0	38.3	45.2	na
1997	37.9	36.9	39.6	44.7	21.2	46.2	41.4	34.4	44.6	45.7	na
2002	32.8	33.6	31.8	38.6	20.5	36.8	38.2	31.1	31.9	39.2	50.0
2007	29.8	29.9	29.6	36.6	18.9	D	33.9	34.3	32.8	37.5	39.7
College or university											
1987	23.7	25.5	19.4	18.3	41.9	17.6	20.8	21.1	26.9	17.7	na
1992	28.6	31.0	23.4	20.8	45.8	36.8	33.2	28.7	23.3	19.3	na
1997	31.7	34.1	27.5	25.7	46.4	30.8	30.6	29.4	24.1	24.7	na
2002	41.8	43.0	40.0	36.2	54.0	26.3	34.5	36.6	39.8	36.4	27.4
2002	41.6 45.6	43.0 47.3	43.2	39.5	54.0 55.4	20.3 D	34.5 42.5	36.6 42.0	39.6 40.2	38.9	42.1
	45.0	41.3	43.2	39.5	55.4	U	42.5	42.0	40.2	30.9	42.1
Private foundation											
1987	10.7	10.1	12.2	10.8	10.7	17.6	9.0	11.8	10.2	10.8	na
1992	9.4	8.4	11.4	10.1	7.7	15.8	11.1	10.4	10.5	10.0	na
1997	9.5	8.9	10.7	9.8	8.9	7.7	8.8	10.6	6.0	10.2	na
2002	5.9	5.2	6.9	6.5	4.6	5.3	5.9	7.5	7.5	6.5	8.1
2007	4.8	4.4	5.2	D	3.7	D	4.3	4.0	5.6	5.7	4.8
Nonprofit, other than private foundation											
1987	2.6	2.5	2.9	2.3	3.4	0.0	1.6	6.6	2.8	2.3	na
1992	2.6	2.6	2.6	1.8	4.3	0.0	1.1	1.7	1.5	1.9	na
1997	3.0	3.0	3.2	2.7	3.9	0.0	2.4	2.5	4.2	2.7	na
2002	3.5	3.0	4.3	3.3	3.9	0.0	3.3	6.3	4.3	3.1	9.7
2007	3.1	2.7	3.6	2.8	3.5	D.0	2.8	2.2	2.6	2.9	9.7 D
Other											
1987	8.5	8.6	8.5	8.2	9.7	0.0	6.1	7.9	7.4	8.4	na
1992	10.5	10.3	10.9	10.8	10.0	0.0	8.5	11.3	9.8	11.1	
											na
1997	8.5	8.7	8.2	7.9	10.1	15.4	5.8	11.3	11.4	7.7	na

TABLE S-32. Sources of support for doctorate recipients with postgraduation commitment for postdoctoral study, by selected demographic characteristics: Selected years, 1987–2007

				Citizensh	ip ^a						
				U.S. citizen and		F	ace/ethnicity (L	J.S. citizens a	ind permanent r	esidents) ^b	
Postgraduate study commitment and	-	Se		permanent	Temporary	American		5			
source of support	Total	Male	Female	resident ^c	visa holder	Indian ^d	Asian ^e	Black	Hispanic	White	Multi-race
2002	9.3	9.5	9.0	8.8	10.2	15.8	11.1	9.1	7.9	8.6	3.2
2007	10.4	10.0	11.1	9.1	12.5	D	9.6	7.3	10.3	9.0	D
Unknown											
1987	14.0	13.0	16.4	14.2	13.1	23.5	17.1	27.6	22.2	13.3	na
1992	13.4	12.8	14.8	13.1	14.2	21.1	13.4	20.9	16.5	12.7	na
1997	9.4	8.6	10.8	9.3	9.5	0.0	11.0	11.9	9.6	9.0	na
2002	6.6	5.7	8.0	6.6	6.7	15.8	7.0	9.4	8.7	6.3	1.6
2007	6.4	5.8	7.2	D	6.0	D	6.9	10.2	8.5	6.1	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Does not include doctorate recipients for whom citizenship was not reported.

^b Does not include non-Hispanic doctorate recipients who did not indicate their race or doctorate recipients for whom race/ethnicity was not reported; in years since 2001 does not include non-Hispanic Native Hawaiian or Other Pacific Islanders.

^c Includes those of other/unknown race/ethnicity, not reported separately.

d Includes Alaska Natives.

^e Includes non-Hispanic Native Hawaiians or Other Pacific Islanders through 2000, but excludes them from 2001–07.

^f Total for 1992 includes 2 respondents not reporting sex.

⁹ Total for 2007 includes 1 respondent not reporting sex.

^h Percent based on those with definite commitments for postdoctoral study or training.

TABLE S-33. Postgraduation location of temporary visa holder doctorate recipients with definite postgraduation commitments: Selected years, 1987-2007

Year	All definite commitments	Definite commitments with response to location	U.S. location	Foreign location
	Nu	ımber	Percer	nt ^a
1987	3,658	3,615	57.2	42.8
1992	5,506	5,480	59.5	40.5
1997	5,463	5,330	66.8	33.2
2002	6,541	6,461	71.1	28.9
2007	9,627	9,510	78.3	21.7

^a Percent based on those with definite commitments with response to location.

TABLE S-34. Postgraduation location and type of commitment of temporary visa holder doctorate recipients with definite postgraduation commitments, by major field of study: 2007 (Percent)

	Number of	U.S. location	n	Foreign locati	on
Field of study	responses	Employment	Study	Employment	Study
All fields	9,510	42.2	36.2	15.0	6.7
Life sciences	1,913	13.9	66.3	12.1	7.7
Agricultural sciences/natural resources	327	24.2	41.6	26.0	8.3
Biological/biomedical sciences	1,303	7.9	79.0	5.6	7.4
Health sciences	283	29.3	36.0	26.1	8.5
Physical sciences	2,429	36.8	45.9	7.7	9.6
Chemistry	619	22.0	64.6	6.5	6.9
Computer sciences	609	65.7	18.9	11.0	4.4
Earth, atmospheric, and ocean sciences	199	25.6	51.8	10.6	12.1
Mathematics	462	47.0	33.5	7.4	12.1
Physics and astronomy	540	16.7	63.1	4.6	15.6
Social sciences	1,017	47.9	16.5	28.0	7.6
Anthropology	39	25.6	25.6	25.6	23.1
Economics	20	70.0	D	D	D
Political science/international relations	174	36.8	16.1	36.2	10.9
Psychology	142	35.2	35.2	18.3	11.3
Sociology	69	47.8	21.7	21.7	8.7
Other social sciences	573	55.1	11.3	28.8	4.7
Engineering	2,715	57.4	28.5	10.4	3.6
Aerospace/aeronautical engineering	68	39.7	33.8	D	D
Chemical and related engineering	323	53.6	31.9	10.5	4.0
Civil and related engineering	297	56.2	29.3	11.4	3.0
Electrical and related engineering	966	70.4	18.1	9.1	2.4
Industrial engineering	103	65.0	19.4	D	D
Materials/metallurgical engineering	229	45.9	38.4	11.4	4.4
Mechanical and related engineering	418	52.2	32.5	9.6	5.7
Other engineering	311	39.2	46.0	11.3	3.5
Education	338	40.8	9.2	41.7	8.3
Education administration	37	29.7	2.7	54.1	13.5
Education research	188	44.1	10.6	37.2	8.0
Teacher education	18	D	D	55.6	D
Teaching fields	76	D	D	46.1	D
Other education	19	47.4	D	31.6	D
Humanities	447	54.8	8.9	27.7	8.5
American literature	14	D	D	57.1	D
English language and literature	25	D	D	40.0	D
Foreign language and literature	107	72.9	8.4	13.1	5.6
History	71	47.9	9.9	33.8	8.5
Other humanities	230	50.4	9.6	29.6	10.4
Other fields	651	64.7	6.5	26.3	2.6
Business and management	458	71.4	D	21.4	D
Communication	79	62.0	D	D	D
Fields not elsewhere classified	112	39.3	10.7	45.5	4.5

D = suppressed to avoid disclosure of confidential information.

NOTES: Postdoctoral plans are categorized as either employment or study. Major field of study definitions are detailed in appendix B. Percentages are based on the number of temporary visa holders reporting definite commitments with responses to type of plan (employment or postdoctoral study) and location (U.S. or foreign).

TABLE S-35. Temporary visa holder doctorate recipients intending to stay in the United States after doctorate receipt, by country of citizenship: 2001–07

		001–2007	20	001	20	002	20	003		004	20	005	20	006	20	007
Place of origin	Number	% staying														
All temporary visa holders	83,889	69.9	9,812	68.3	9,747	67.1	10,595	65.7	11,622	66.4	12,831	70.2	14,155	72.9	15,127	75.1
Africa	3,161	62.2	366	64.8	368	59.0	394	57.9	456	54.6	497	61.4	520	65.0	560	69.8
Egypt	822	59.9	85	64.7	99	55.6	120	60.0	130	60.8	147	51.7	128	62.5	113	66.4
Ghana	255	71.0	33	81.8	27	66.7	28	57.1	33	54.5	40	72.5	38	71.1	56	82.1
Kenya	411	69.8	36	80.6	44	84.1	42	64.3	60	56.7	69	69.6	72	70.8	88	69.3
Other	1,673	60.1	212	59.4	198	54.0	204	55.4	233	50.6	241	63.1	282	63.8	303	69.0
East/South Asia	49,862	76.2	5,567	74.9	5,457	74.2	5,960	71.6	6,635	74.0	7,638	76.0	8,962	78.7	9,643	80.4
China ^a	22,834	90.2	2,323	91.9	2,290	91.7	2,483	90.6	2,995	89.5	3,588	89.4	4,441	89.9	4,714	89.6
India	8,135	87.8	824	88.7	734	89.9	808	84.7	914	86.4	1,186	85.4	1,594	87.8	2,075	89.8
Japan	1,690	51.0	195	49.2	205	50.2	241	51.0	240	48.8	263	49.0	270	55.9	276	51.8
South Korea	9,197	63.9	1,088	61.6	1,109	65.0	1,229	61.0	1,351	64.8	1,442	63.6	1,544	63.1	1,434	67.4
Malaysia	480	54.2	69	43.5	61	49.2	58	51.7	68	58.8	72	51.4	79	64.6	73	57.5
Singapore	380	51.3	40	55.0	36	41.7	35	62.9	55	49.1	70	54.3	75	45.3	69	53.6
Taiwan	4,642	53.4	705	59.3	609	57.3	669	49.0	636	46.5	661	56.0	668	52.1	694	53.3
Thailand	2,313	21.4	311	20.6	388	14.9	412	16.3	354	20.6	322	22.4	260	31.2	266	30.5
Other	191	58.6	12	25.0	25	60.0	25	60.0	22	40.9	34	70.6	31	71.0	42	57.1
Europe	11,997	69.2	1,564	68.4	1,570	69.5	1,618	69.1	1,760	66.1	1,847	71.3	1,816	70.1	1,822	69.5
Bulgaria	394	85.3	43	88.4	40	90.0	47	78.7	69	81.2	81	86.4	60	85.0	54	88.9
France	775	67.1	81	69.1	100	58.0	86	64.0	104	64.4	126	69.8	126	69.8	152	71.1
Germany	1,379	62.2	227	60.8	207	58.0	203	65.0	193	61.1	194	59.8	182	67.6	173	64.2
Greece	719	64.0	103	64.1	80	58.8	86	64.0	108	64.8	102	68.6	122	59.0	118	67.8
Italy	995	60.8	126	53.2	137	63.5	136	51.5	151	63.6	155	65.2	163	60.7	127	66.9
Poland	266	71.8	38	71.1	29	82.8	29	93.1	31	61.3	37	67.6	48	72.9	54	63.0
Romania	1,034	86.3	98	94.9	131	84.0	115	85.2	155	85.2	183	88.0	186	86.0	166	83.1
Russian Federation	1,389	81.4	196	84.7	178	86.5	203	81.8	187	76.5	207	83.1	207	79.2	211	78.2
Spain	645	59.4	83	57.8	83	57.8	106	63.2	95	53.7	99	63.6	79	60.8	100	58.0
Ukraine	373	84.7	33	87.9	55	96.4	46	87.0	45	80.0	56	83.9	64	79.7	74	81.1
United Kingdom	821	67.5	118	72.0	134	70.9	108	66.7	122	63.1	113	71.7	113	68.1	113	59.3
Other	3,207	64.0	418	61.2	396	65.4	453	66.0	500	59.8	494	65.2	466	65.5	480	65.0
North/South America	9,333	53.2	1,150	53.0	1,151	49.1	1,302	50.7	1,404	51.2	1,458	52.7	1,384	54.4	1,484	60.2
Argentina	651	63.7	68	60.3	75	68.0	84	66.7	101	61.4	94	66.0	102	61.8	127	63.0
Brazil	1,119	38.7	149	31.5	150	34.0	143	32.9	173	38.2	180	40.6	167	41.9	157	50.3
Canada	3,162	57.8	394	60.7	394	57.4	428	55.8	507	55.8	463	55.1	464	59.7	512	60.4
Chile	381	35.7	34	44.1	46	19.6	69	42.0	51	35.3	58	37.9	62	21.0	61	49.2
Colombia	629	56.8	68	69.1	57	56.1	90	45.6	81	56.8	127	49.6	100	55.0	106	68.9
Mexico	1,493	44.7	214	43.0	202	41.1	230	46.1	203	41.9	231	46.8	208	45.2	205	48.8
Peru	274	69.0	27	70.4	37	64.9	30	66.7	29	69.0	43	65.1	43	72.1	65	72.3
Venezuela	459	51.9	54	46.3	62	37.1	85	45.9	78	51.3	57	54.4	66	57.6	57	73.7
Other	1,165	60.3	142	59.2	128	51.6	143	58.0	181	54.7	205	61.5	172	65.1	194	68.6
Pacifica/Australasia	1,383	57.9	179	47.5	206	54.9	187	50.3	192	62.0	212	57.5	199	63.3	208	68.3
Australia	380	60.0	45	55.6	51	60.8	50	54.0	46	71.7	64	51.6	58	65.5	66	62.1

TABLE S-35. Temporary visa holder doctorate recipients intending to stay in the United States after doctorate receipt, by country of citizenship: 2001–07

	Total, 20	001–2007	20	01	20	002	20	003	20	004	20	05	20	006	20	007
Place of origin	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying
Philippines	345	68.4	41	51.2	43	65.1	52	57.7	40	72.5	48	83.3	53	60.4	68	82.4
Other	658	51.2	93	41.9	112	48.2	85	43.5	106	53.8	100	49.0	88	63.6	74	60.8
West Asia	7,592	57.4	909	57.3	894	54.5	998	51.8	1,100	50.0	1,116	59.9	1,254	61.3	1,321	64.0
Bangladesh	399	81.2	52	82.7	43	81.4	38	84.2	48	77.1	63	81.0	88	85.2	67	76.1
Iran	582	88.7	73	86.3	41	85.4	45	77.8	47	93.6	115	87.0	129	86.0	132	D
Israel	596	59.2	62	64.5	55	60.0	77	62.3	94	58.5	102	63.7	98	57.1	108	51.9
Jordan	620	46.5	71	52.1	58	62.1	86	47.7	106	42.5	86	40.7	106	45.3	107	43.0
Lebanon	284	75.7	29	72.4	36	72.2	33	60.6	39	66.7	29	69.0	59	84.7	59	88.1
Pakistan	326	71.5	51	62.7	39	69.2	33	72.7	38	81.6	42	73.8	63	77.8	60	65.0
Saudi Arabia	709	7.6	87	11.5	103	3.9	111	7.2	132	8.3	107	7.5	98	5.1	71	D
Sri Lanka	335	80.9	39	82.1	28	85.7	36	86.1	47	78.7	53	75.5	56	78.6	76	82.9
Turkey	2,819	60.0	315	58.7	370	56.5	412	54.6	397	51.9	390	65.1	414	64.7	521	66.2
Other	922	44.7	130	44.6	121	47.9	127	41.7	152	38.2	129	49.6	143	44.1	120	48.3
Country unknown	561	38.7	77	14.3	101	20.8	136	57.4	75	13.3	63	41.3	20	30.0	89	73.0

D = suppressed to avoid disclosure of confidential information.

NOTES: Includes only temporary visa holders who indicated whether they intended to stay in the United States after graduation. Percentages based on all doctorate recipients, not just those with definite commitments.

^a Includes Hong Kong.

TABLE S-36. Doctorate recipients, by sex and subfield of study: 2007

eld of study	Total ^a	Male	Female
fields	48,112	26,176	21,884
Life sciences	10,628	5,158	5,457
Agricultural sciences/natural resources	1,320	802	515
Agricultural economics	186	125	61
Agronomy and crop science	72	51	21
Animal science, other	63	34	29
Environmental science	159	94	65
Fishing and fisheries sciences and management	42	27	1
Forest/resources management	48	34	14
Forest sciences and biology	42	28	14
Horticulture science	49	29	20
Natural resources/conservation	72	41	3.
Plant pathology/phytopathology	69	39	29
Wildlife/range management	40	27	13
Animal breeding, animal nutrition, poultry science	91	56	35
Food science, food technology-other	155	69	84
Plant breeding, plant sciences-other	83	49	34
Soil chemistry, soil sciences-other	80	52	28
Wood science, forestry sciences-other	56	42	14
Agriculture-general, agricultural sciences-other	13	5	12
Biological/biomedical sciences	7,179	3,675	3,499
Biochemistry	863	490	373
Bioinformatics	79	59	20
Biomedical sciences	293	146	147
Biometrics and biostatistics	121	45	75
Biophysics	177	123	54
Cancer biology	91	36	55
Cell/cellular biology and histology	370	179	191
Ecology	461	253	208
Entomology	93	63	30
Evolutionary biology	39	20	19
Genetics/genomics, human and animal	374	169	205
Immunology	395	191	204
Microbiology	524	249	274
Molecular biology	701	338	362
Neurosciences	763	438	324
Nutrition sciences	163	36	127
Pharmacology, human and animal	287	129	158
Physiology, human and animal	238	120	118
Plant genetics	48	16	32
Toxicology	115	52	63
Zoology	80	50	30
Biology/biomedical sciences, general	245	133	112
Anatomy, developmental biology	193	96	97
Bacteriology, parasitology	39	22	17
Botany, plant pathology, plant physiology	165	87	77
Endocrinology, human/animal pathology	128	59	69
Biotechnology, biology/biomedical sciences-other	134	76	58
Health sciences	2,129	681	1,443
Environmental health	57	28	29
Epidemiology	289	79	210
Health systems/services administration	103	43	59
Kinesiology/exercise science	189	111	78
•	265	154	
Medicinal/pharmaceutical sciences Nursing science			110
	482	35 50	447
Public health Rehabilitation/therapeutic services	285	59	225
Renadilianon/ineraneuric services	75	30	45

TABLE S-36. Doctorate recipients, by sex and subfield of study: 2007

	Total ^a	Male	Female
Speech-language pathology and audiology	113	28	85
Veterinary sciences	72	35	36
Health sciences, aggregated	199	79	119
hysical sciences	8,029	5,766	2,254
Astronomy	223	163	59
Astronomy	87	55	3′
Astrophysics	136	108	28
Atmospheric science and meteorology	167	104	63
Atmospheric science/meteorology, general	47	33	14
Atmospheric physics, meteorology	56	38	18
Atmospheric chemistry, atmospheric science-other	64	33	3′
Chemistry	2,325	1,490	834
Analytical chemistry	397	215	182
Inorganic chemistry	273	187	8
Organic chemistry	652	453	199
Physical chemistry	327	219	108
Polymer chemistry	122	80	42
Theoretical chemistry	86	62	24
Chemistry, general	310 158	190 84	120 74
Chemistry-other ^b			
Computer and information sciences	1,656	1,322	33
Computer science	1,432	1,168	262
Information science and systems	131	88	43
Computer and information science, other	93	66	2
Geological and earth sciences	480	304	17:
Geology	143	86	56
Geophysics and seismology	111	80	3.
Geological and earth sciences, other	50 77	28	22
Geochemistry, mineralogy Geomorphology, geological sciences-general	47	42 33	3: 1
Paleontology, stratigraphy	52	35	17
• • • •			
Mathematics	1,393	987	403
Algebra	115 119	82 91	33 28
Analysis and functional analysis Geometry/geometric analysis	91	72	19
Number theory	66	52	14
Statistics	359	210	147
Applied mathematics, computing theory	366	272	94
Logic, topology/foundations	88	66	22
Operations research, mathematics/statistics-general,	400		
mathematics/statistics-other	189	142	46
Ocean/marine sciences	231	133	98
Marine sciences	72	30	42
Oceanography, chemical and physical	109	69	40
Ocean/marine sciences, aggregated	50	34	16
Physics	1,554	1,263	290
Applied physics	124	104	20
Biophysics	124	89	35
Condensed matter/low temperature physics	360	299	6′
Elementary particle physics	203	169	34
Nuclear physics	74	61	13
Plasma/fusion physics	48	43	5
Physics, general Physics, other	187	157	29
	123	96	27

TABLE S-36. Doctorate recipients, by sex and subfield of study: 2007

eld of study	Total ^a	Male	Female
Acoustics, optics/phototonics	171	141	30
Atomic physics, polymer physics	140	104	36
Social sciences and psychology	7,197	2,979	4,214
Psychology	3,292	949	2,343
Clinical psychology	1,160	282	878
Cognitive psychology and psycholinguistics	175	81	94
Counseling	415	125	290
Developmental and child psychology	198	28	170
Experimental psychology	126	49	77
Educational psychology	71	25	46
Family psychology	45	13	32
Human development and family studies	126	30	96
Industrial and organizational	187	66	121
Physiological/psychobiology	95	38	57
Psychometrics and quantitative psychology	35	18	17
School psychology	123	21	102
Social psychology	199	73	126
Psychology, general	193	57	136
Psychology, aggregated	144	43	101
Social sciences	3,905	2,030	1,871
Anthropology	511	196	315
Area/ethnic/cultural/gender studies	97	30	67
Criminal justice and corrections	41	19	22
Criminology	49	24	25
Geography	200	121	79
International relations/affairs	127	74	53
Linguistics	220	89	131
Political science and government	588	344	243
Public policy analysis	211	99	112
Sociology	576	216	360
Urban/city, community and regional planning	70	45	24
Social sciences, general	39	17	22
Econometrics, economics	994	676	316
Demography, statistics, urban affairs, social sciences-other	182	80	102
Engineering	7,744	6,131	1,602
Aerospace, aeronautical and astronautical engineering	267	235	31
Bioengineering and biomedical engineering	638	412	226
Chemical engineering	807	610	195
Civil engineering	701	537	164
Computer engineering	404	346	58
Electrical, electronics, and communications engineering	1,968	1,661	304
Environmental health engineering	164	97	66
Industrial and manufacturing engineering	280	203	76
Materials science engineering	648	482	165
Mechanical engineering	1,072	941	131
Nuclear engineering	77	68	9
Operations research	96	78	18
Systems engineering	73	58	15
Other engineering, aggregated	549	403	144
Education	6,444	2,103	4,340
Education administration	2,159	803	1,356
Educational administration and supervision	666	251	415
Educational leadership	1,493	552	941
Education research	2,667	814	1,852
Counseling education/counseling and guidance	214	60	154

TABLE S-36. Doctorate recipients, by sex and subfield of study: 2007

31	27	58	Archaeology
64	46	110	American/U.S. studies
983	1,218	2,207	Other humanities
47	38	85	Letters, aggregated
72	55	127	Speech and rhetorical studies
227	122	349	English literature (British and Commonwealth)
128	95	223	Comparative literature
11/	46	53 176	Classics
1/4	160	نن 4 (ئ	American literature (U.S. and Canada)
779	578	1,357	Letters
‡	4	0/	nistory, aggregated
44 6	43	/4 87	History, general
3 -	50	7.4 7.4	History approach
10 R	26	An 44	Middle /Neer Each at vision
40	27	<u> </u>	History, science and technology and society
20	27	102	Listen points and tochnology and positive
°2 29	42	, , , , , , , , , , , , , , , , , , ,	Asian nistory
14/	239	380	Amencan nistory (U.S. and Canada)
385	555	940	History
/0	20	128	Other aggregated languages
201	46	120	rench, italian
51	41	. Y	German
142	90	240	Spanish
371	237	608	Foreign languages and literature
j	1	0	
2.518	2.588	5.112	Humanities
173	71	244	Other education, aggregated
189	75	264	Education, general
362	146	508	Other education
40	7	, dilei	reacher education and professional development, other
à 00	40		Tookha advantan advantanian landanian
SF 96	3 5	101	Reading education
23	25	48	Physical education and coaching
34	49	. 83	Music education
85	47	132	Mathematics education
51	22	73	Health education
42	24	66	Foreign languages education
44	7	51	English education
38	9	47	Art education
19	27	46	Agricultural education
545	267	812	Teaching fields
23	8	31	Secondary teacher education
50	ω		Pre-elementary/early childhood teacher education
50	8	58	Elementary teacher education
102	54	156	Adult and continuing teacher education
225	73	298	Teacher education
239	57	296	Special education
63	44	107	Social/philosophical foundations of education
89	22	111	School psychology
311	196	507	Higher education/evaluation and research
98	80	178	Educational/instructional media design
46	24	70	Educational statistics/research methods
203 203	6 G	272	Educational psychology
603	232	836 76	Curriculum and instruction
relliale	INIGIC	l Viai	rigid of study
Female	Male	Totala	Field of study

TABLE S-36. Doctorate recipients, by sex and subfield of study: 2007

IABLE 5-36. Doctorate recipients, by sex and subtleid of study: 2007			
Field of study	Total ^a	Male	Female
Art history/criticism/conservation	228	58	169
Drama/theater arts	107	48	59
Music	412	222	187
Music theory and composition	55	40	14
Music performance	226	104	121
Musicology/ethnomusicology	39	16	23
Music, other	99	53	46
Philosophy	411	313	98
Religion/religious studies	327	217	110
Humanities, general	34	16	18
Other humanities, aggregated	101	58	43
Other fields	2,958	1,451	1,499
Business management/administration	1,506	862	639
Accounting	170	95	75
Business administration and management	326	209	116
Human resources development	87	31	55
Organizational behavior	183	92	91
Management information systems/business statistics	142	102	40
Marketing management and research	196	92	104
	106	6 G	2 4 0
Banking/financial services finance	91	55	35 t
Business economics, International business, business-other	140	79	61
Communication	555	206	348
Communication research	98	43	55
Communication theory	30	7	23
Mass communication/media studies	188	74	113
Communication, general	119	43	76
Communication, aggregated	120	39	81
Fields not elsewhere classified	876	373	501
Architecture/environmental design	96	60	36
Family/consumer science/human science	39	6	33
Library science	36	1	25
Parks/sports/recreation/leisure/fitness	59	24	34
Public administration	112	55	57
Social work	287	71	216
Theology/religious education	104	72	32
Fields nec, aggregated	143	74	68
Unknown field	21	10	11
pool pot ploouhoro ploosified			

nec = not elsewhere classified.

NOTES: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See appendix A for details of field aggregations.

^aTotals include doctorate recipients who did not report sex (n=52).

^b Includes a small number of doctorate recipients who completed an previous version of the survey form and indicated medicinal/pharmaceutical chemistry, which was removed from the taxonomy in 2007.

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

						U.S. citizens	and permanent	residents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
All fields	48,112	15,127	29,436	141	2,330	1,956	1,650	22,341	508	510
Life sciences	10,628	3,029	6,950	30	720	321	353	5,299	111	116
Agricultural sciences/natural resources	1,320	542	683	9	24	22	28	582	8	10
Agricultural economics	186	109	58	1	2	5	4	45	0	1
Agronomy and crop science	72	24	42	1	2	1	2	35	0	1
Animal science, other	63	21	36	0	1	0	1	33	0	1
Environmental science	159	58	86	3	5	2	5	68	2	1
Fishing and fisheries sciences and management	42	5	36	0	0	0	3	33	0	0
Forest/resources management	48	20	26	0	3	0	0	19	1	3
Forest sciences and biology	42	8	31	0	1	0	0	30	0	0
Horticulture science	49	16	30	0	1	2	0	27	0	0
Natural resources/conservation	72	13	56	1	2	2	3	47	1	0
Plant pathology/phytopathology	69	34	32	1	0	0	2	28	1	0
Wildlife/range management	40	3	35	1	0	0	0	34	0	0
Animal breeding, animal nutrition, poultry science	91	37	50	0	1	0	1	48	0	0
Food science, food technology-other	155	83	54	0	2	3	5	42	2	0
Plant breeding, plant sciences-other	83	46	34	1	0	3	1	27	1	1
Soil chemistry, soil sciences-other	80	38	40	0	3	4	0	32	0	1
Wood science, forestry sciences-other	56	24	27	0	0	0	0	26	0	1
Agriculture-general, agricultural sciences-other	13	3	10	0	1	0	1	8	0	0
Biological/biomedical sciences	7,179	2,019	4,787	14	556	187	259	3,619	81	71
Biochemistry	863	298	528	0	66	14	22	411	6	9
Bioinformatics	79	32	43	0	10	1	1	31	0	0
Biomedical sciences	293	93	179	0	21	16	14	124	1	3
Biometrics and biostatistics	121	48	66	0	21	2	2	38	1	2
Biophysics	177	62	112	0	18	4	5	80	3	2
Cancer biology	91	23	66	0	13	6	3	44	0	0
Cell/cellular biology and histology	370	105	236	0	38	8	16	167	4	3
Ecology	461	71	371	1	12	3	10	336	7	2
Entomology	93	43	46	0	0	2	3	41	0	0
Evolutionary biology	39	9	28	0	0	0	0	26	1	1
Genetics/genomics, human and animal	374	94	257	1	34	9	18	189	3	3
Immunology	395	99	283	1	39	9	15	211	5	3
Microbiology	524	120	371	1	30	20	26	279	7	8
Molecular biology	701	203	455	3	71	17	27	323	7	7
Neurosciences	763	193	538	1	55	24	37	398	13	10
Nutrition sciences	163	48	110	1	7	6	4	89	2	1
Pharmacology, human and animal	287	79	202	1	31	13	10	143	2	2
Physiology, human and animal	238	65	166	1	19	14	8	120	2	2
Plant genetics	48	20	28	0	1	0	1	25	1	0

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

		_				U.S. citizens	and permanent	residents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Toxicology	115	27	79	2	7	4	5	58	1	2
Zoology	80	10	62	0	3	0	6	52	1	0
Biology/biomedical sciences, general	245	61	153	0	14	5	5	119	6	4
Anatomy, developmental biology	193	57	132	0	19	2	7	97	3	4
Bacteriology, parasitology	39	9	29	0	2	1	2	23	0	1
Botany, plant pathology, plant physiology	165	63	93	0	5	2	1	80	4	1
Endocrinology, human/animal pathology	128	38	82	0	12	1	6	62	1	0
Biotechnology, biology/biomedical sciences-other	134	49	72	1	8	4	5	53	0	1
Health sciences	2,129	468	1,480	7	140	112	66	1,098	22	35
Environmental health	57	11	38	0	3	1	1	31	1	1
Epidemiology	289	67	202	1	26	12	11	142	2	8
Health systems/services administration	103	23	74	0	10	8	2	52	2	0
Kinesiology/exercise science	189	30	153	0	5	9	8	129	0	2
Medicinal/pharmaceutical sciences	265	126	89	0	20	4	6	54	2	3
Nursing science	482	59	402	3	19	25	9	332	4	10
Public health	285	45	223	2	29	32	16	132	7	5
Rehabilitation/therapeutic services	75	19	51	0	3	1	3	43	0	1
Speech-language pathology and audiology	113	14	92	0	8	10	2	72	0	0
Veterinary sciences	72	31	32	0	3	1	3	25	0	0
Health sciences, aggregated	199	43	124	1	14	9	5	86	4	5
Physical sciences	8,029	3,662	3,822	9	378	142	156	2,989	58	90
Astronomy	223	80	135	0	6	1	8	113	3	4
Astronomy	87	20	62	0	2	0	3	54	1	2
Astrophysics	136	60	73	0	4	1	5	59	2	2
Atmospheric science and meteorology	167	64	93	0	1	5	3	81	1	2
Atmospheric science/meteorology, general	47	18	26	0	0	1	1	22	0	2
Atmospheric physics, meteorology	56	21	34	0	1	2	0	30	1	0
Atmospheric chemistry, atmospheric science-other	64	25	33	0	0	2	2	29	0	0
Chemistry	2,325	958	1,187	4	123	62	57	902	17	22
Analytical chemistry	397	177	212	0	23	10	9	165	2	3
Inorganic chemistry	273	108	157	0	11	3	8	128	3	4
Organic chemistry	652	267	368	3	43	20	22	264	7	9
Physical chemistry	327	129	191	1	22	5	11	147	2	3
Polymer chemistry	122	80	39	0	4	6	1	28	0	0
Theoretical chemistry	86	40	44	0	3	2	1	38	0	0
Chemistry, general	310	84	100	0	12	12	5	70	0	1
Chemistry-other ^f	158	73	76	0	5	4	0	62	3	2
Computer and information sciences	1,656	898	640	1	106	31	18	459	9	16
Computer science	1,432	814	526	1	94	16	15	379	6	15

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

		_				U.S. citizens	and permanent r	residents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Information science and systems	131	45	72	0	4	10	3	53	2	0
Computer and information science, other	93	39	42	0	8	5	0	27	1	1
Geological and earth sciences	480	148	307	0	4	3	12	273	6	9
Geology	143	35	99	0	0	2	4	91	0	2
Geophysics and seismology	111	55	48	0	1	0	3	42	1	1
Geological and earth sciences, other	50	12	37	0	0	1	0	33	2	1
Geochemistry, mineralogy	77	23	53	0	2	0	5	44	1	•
Geomorphology, geological sciences-general	47	12	29	0	0	0	0	26	1	2
Paleontology, stratigraphy	52	11	41	0	1	0	0	37	1	2
Mathematics	1,393	695	605	2	70	19	23	470	6	15
Algebra	115	46	69	0	3	2	1	60	1	2
Analysis and functional analysis	119	59	58	2	5	0	4	44	1	2
Geometry/geometric analysis	91	40	50	0	6	0	3	39	0	2
Number theory	66	21	45	0	6	0	0	38	0	1
Statistics	359	227	113	0	20	8	3	77	1	4
Applied mathematics, computing theory	366	203	148	0	18	8	5	114	1	2
Logic, Topology/foundations	88	27	58	0	6	1	5	44	1	
Operations research, mathematics/statistics-general,	400			•	•	•	•			
mathematics/statistics-other	189	72	64	0	6	0	2	54	1	1
Ocean/marine sciences	231	72	152	0	6	1	5	135	3	2
Marine sciences	72	8	60	0	3	0	1	54	1	1
Oceanography, chemical and physical	109	44	62	0	2	0	4	53	2	1
Ocean/marine sciences, aggregated	50	20	30	0	1	1	0	28	0	(
Physics	1,554	747	703	2	62	20	30	556	13	20
Applied physics	124	60	62	0	4	4	2	47	2	3
Biophysics	124	60	59	0	12	2	2	41	1	•
Condensed matter/low temperature physics	360	216	135	0	15	4	3	106	2	Ę
Elementary particle physics	203	95	104	0	9	1	5	85	2	2
Nuclear physics	74	40	33	0	2	0	1	30	0	(
Plasma/fusion physics	48	17	30	0	2	2	1	25	0	(
Physics, general	187	56	70	1	5	0	4	55	1	4
Physics, other	123	48	66	0	1	2	4	52	4	3
Acoustics, optics/phototonics	171	91	73	1	7	3	1	59	0	2
Atomic physics, polymer physics	140	64	71	0	5	2	7	56	1	C
Social sciences and psychology	7,197	1,474	5,167	39	322	328	339	3,939	121	79
Psychology	3,292	236	2,791	23	154	163	205	2,145	61	40
Clinical psychology	1,160	50	1,027	8	65	57	85	778	20	14
Cognitive psychology and psycholinguistics	175	29	138	1	6	2	7	115	4	3

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

		U.S. citizens and permanent residents ^a									
	All doctorate	Temporary		American						Other/unknown	
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e	
Counseling	415	25	358	2	26	32	25	257	14	2	
Developmental and child psychology	198	17	174	2	7	7	14	138	5	1	
Experimental psychology	126	16	108	1	8	2	2	89	3	3	
Educational psychology	71	5	60	1	2	9	0	47	1	0	
Family psychology	45	1	40	0	0	4	2	34	0	0	
Human development and family studies	126	14	105	1	6	11	7	75	3	2	
Industrial and organizational	187	22	155	1	10	5	17	118	1	3	
Physiological/psychobiology	95	10	81	0	1	3	8	69	0	0	
Psychometrics and quantitative psychology	35	7	28	1	1	3	4	18	0	1	
School psychology	123	3	114	1	2	4	3	100	1	3	
Social psychology	199	18	168	2	10	6	11	134	3	2	
Psychology, general	193	11	105	1	3	6	12	75	2	6	
Psychology, aggregated	144	8	130	1	7	12	8	98	4	0	
Social sciences	3,905	1,238	2,376	16	168	165	134	1,794	60	39	
Anthropology	511	68	409	4	25	17	23	318	13	9	
Area/ethnic/cultural/gender studies	97	13	80	3	9	16	15	31	3	3	
Criminal justice and corrections	41	3	32	0	1	3	1	26	0	1	
Criminology	49	6	43	0	0	3	1	39	0	0	
Geography	200	50	130	2	3	5	2	116	1	1	
International relations/affairs	127	48	72	0	3	4	4	56	3	2	
Linguistics	220	85	119	0	17	0	7	92	2	1	
Political science and government	588	128	422	1	16	27	25	331	14	8	
Public policy analysis	211	52	135	1	7	17	3	103	2	2	
Sociology	576	95	438	2	25	34	28	330	13	6	
Urban/city, community and regional planning	70	34	30	0	2	4	4	20	0	0	
Social sciences, general	39	8	28	0	2	3	1	21	0	1	
Econometrics, economics	994	595	323	2	48	18	16	227	7	5	
Demography, statistics, urban affairs, social sciences-	182	53	115	1	10	14	4	84	2	0	
other	102	33	113	'	10	14	4	04	2	Ü	
Engineering	7,744	4,586	2,534	7	397	91	126	1,802	47	64	
Aerospace, aeronautical and astronautical engineering	267	119	116	1	7	0	7	93	4	4	
Bioengineering and biomedical engineering	638	257	340	1	60	20	9	237	8	5	
Chemical engineering	807	442	307	0	40	14	12	230	2	9	
Civil engineering	701	436	220	2	22	10	18	160	4	4	
Computer engineering	404	288	88	0	21	2	7	53	2	3	
Electrical, electronics, and communications engineering	1,968	1,298	489	1	125	20	26	293	9	15	
Environmental health engineering	164	84	67	1	6	3	6	46	2	3	
Industrial and manufacturing engineering	280	171	74	0	11	5	6	49	1	2	
Materials science engineering	648	362	251	0	38	2	8	189	9	5	
Mechanical engineering	1,072	673	329	0	43	10	12	250	5	9	

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

		_				U.S. citizens	and permanent	residents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ⁶
Nuclear engineering	77	35	31	1	3	1	1	25	0	0
Operations research	96	63	29	0	5	1	4	19	0	0
Systems engineering	73	24	37	0	2	0	2	32	0	1
Other engineering, aggregated	549	334	156	0	14	3	8	126	1	4
Education	6,444	604	5,351	36	184	734	342	3,925	78	52
Education administration	2,159	63	1,927	21	41	310	111	1,410	18	16
Educational administration and supervision	666	25	571	1	11	110	33	407	3	6
Educational leadership	1,493	38	1,356	20	30	200	78	1,003	15	10
Education research	2,667	324	2,170	14	98	279	153	1,568	38	20
Counseling education/counseling and guidance	214	13	189	1	8	34	14	129	0	3
Curriculum and instruction	836	100	670	6	22	90	68	468	12	4
Educational assessment/testing/measure	76	24	51	0	1	5	3	42	0	0
Educational psychology	272	28	218	1	15	21	13	159	7	2
Educational statistics/research methods	70	24	46	1	5	6	2	27	4	1
Educational/instructional media design	178	45	120	0	7	8	3	99	1	2
Higher education/evaluation and research	507	41	445	3	18	72	28	310	8	6
School psychology	111	4	97	0	7	10	6	72	2	0
Social/philosophical foundations of education	107	19	85	2	5	7	5	64	1	1
Special education	296	26	249	0	10	26	11	198	3	1
Teacher education	298	27	239	0	6	29	7	187	7	3
Adult and continuing teacher education	156	8	128	0	3	13	3	104	4	1
Elementary teacher education	58	7	47	0	0	8	3	33	1	2
Pre-elementary/early childhood teacher education	53	9	39	0	2	6	0	29	2	0
Secondary teacher education	31	3	25	0	1	2	1	21	0	0
Teaching fields	812	142	628	1	21	67	33	493	6	7
Agricultural education	46	9	33	0	0	3	0	30	0	0
Art education	47	12	32	0	2	3	1	25	1	0
English education	51	14	33	0	1	4	2	26	0	0
Foreign languages education	66	25	32	1	2	1	7	21	0	0
Health education	73	7	64	0	2	17	3	41	1	C
Mathematics education	132	14	109	0	7	9	6	83	3	1
Music education	83	8	71	0	2	3	4	61	0	1
Physical education and coaching	48	11	37	0	1	3	1	32	0	0
Reading education	101	14	85	0	2	6	4	73	0	0
Science education	105	25	78	0	1	10	1	63	0	3
Teacher education and professional development, other	60	3	54	0	1	8	4	38	1	2
Other education	508	48	387	0	18	49	38	267	9	6
Education, general	264	19	199	0	13	31	17	128	4	6
Other education, aggregated	244	29	188	0	5	18	21	139	5	0

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

		_				U.S. citizens	and permanent	residents ^a		
	All doctorate	Temporary		American						Other/unknow
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race
Humanities	5,112	794	3,920	14	202	185	254	3,120	69	7
Foreign languages and literature	608	169	403	2	22	10	75	281	6	
Spanish	240	75	154	0	2	2	66	80	1	
German	92	21	58	0	2	0	0	53	3	
French, Italian	148	43	99	1	2	7	5	82	1	
Other aggregated languages	128	30	92	1	16	1	4	66	1	
History	940	101	793	3	27	48	47	632	15	2
American history (U.S. and Canada)	386	14	362	2	6	28	20	289	10	
Asian history	71	24	47	0	11	0	0	34	0	
European history	182	17	164	1	4	1	5	148	4	
History, science and technology and society	51	7	44	0	3	1	2	37	0	
Latin American history	44	6	37	0	0	0	12	24	0	
Middle/Near East studies	45	10	32	0	3	1	1	25	0	
History, general	74	7	42	0	0	4	2	32	0	
History, aggregated	87	16	65	0	0	13	5	43	1	
Letters	1,357	157	1,097	5	49	64	50	891	17	
American literature (U.S. and Canada)	334	20	302	1	11	32	15	229	6	
Classics	63	12	48	0	5	1	2	39	0	
Comparative literature	176	56	106	0	10	6	13	75	1	
English language	223	22	152	0	5	6	3	131	2	
English literature (British and Commonwealth)	349	30	304	2	15	6	12	260	6	
Speech and rhetorical studies	127	8	117	1	1	9	3	101	0	
Letters, aggregated	85	9	68	1	2	4	2	56	2	
Other humanities	2,207	367	1,627	4	104	63	82	1,316	31	
American/U.S. studies	110	7	98	2	4	12	9	66	3	
Archaeology	58	11	46	0	1	0	3	42	0	
Art history/criticism/conservation	228	34	178	0	7	2	8	157	3	
Drama/theater arts	107	11	92	0	3	4	3	77	3	
Music	412	79	263	0	19	9	12	212	4	
Music theory and composition	55	11	35	0	4	0	1	29	1	
Music performance	226	56	133	0	18	0	7	100	3	
Musicology/ethnomusicology	39	9	29	0	2	1	1	25	0	
Music, other	99	17	73	0	6	3	3	58	2	
Philosophy	411	66	320	1	14	10	18	270	3	
Religion/religious studies	327	41	270	0	19	16	11	215	7	
Humanities, general	34	1	25	0	1	3	1	18	2	
Other humanities, aggregated	101	24	65	1	6	3	5	47	0	
Other fields	2,958	978	1,692	6	127	155	80	1,267	24	;
Business management/administration	1,506	634	744	4	76	56	24	565	7	1

TABLE S-37. Doctorate recipients, by citizenship, race/ethnicity, and subfield of study: 2007

						U.S. citizens	and permanent	residents ^a		
	All doctorate	Temporary		American						Other/unknown
Subfield of study	recipients ^b	visa holders	Total	Indian ^c	Asian ^d	Black	Hispanic	White	Multi-race	race ^e
Accounting	170	77	85	0	10	7	3	64	1	0
Business administration and management	326	125	152	0	13	13	5	115	1	5
Human resources development	87	17	63	1	1	6	3	51	1	0
Organizational behavior	183	32	133	0	3	9	3	117	0	1
Management information systems/business statistics	142	62	70	0	9	3	3	52	2	1
Marketing management and research	196	101	90	0	12	8	5	61	1	3
Operations research	66	38	25	1	5	0	0	18	1	0
Business management/administration, general	105	54	36	0	5	2	1	26	0	2
Banking/financial services, finance	91	56	27	0	9	2	0	16	0	0
Business economics, international business, business- other	140	72	63	2	9	6	1	45	0	0
Communication	555	136	376	1	19	31	11	297	9	8
Communication research	98	23	69	0	2	5	2	56	1	3
Communication theory	30	4	26	0	1	2	1	22	0	0
Mass communication/media studies	188	67	109	0	10	10	4	83	1	1
Communication, general	119	19	90	1	2	9	2	72	2	2
Communication, aggregated	120	23	82	0	4	5	2	64	5	2
Fields nec	876	208	572	1	32	68	45	405	8	13
Architecture/environmental design	96	48	46	0	2	2	1	39	0	2
Family/consumer science/human science	39	6	26	0	1	1	0	24	0	0
Library science	36	9	27	0	1	5	2	17	1	1
Parks/sports/recreation/leisure/fitness	59	25	27	0	2	3	0	21	1	0
Public administration	112	25	79	0	1	6	7	64	1	0
Social work	287	26	242	1	13	40	23	156	3	6
Theology/religious education	104	15	84	0	10	5	7	60	1	1
Fields nec, aggregated	143	54	41	0	2	6	5	24	1	3
Unknown field	21	0	0	0	0	0	0	0	0	0

nec = not elsewhere classified.

NOTES: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See appendix A for details of field aggregations.

^a Persons reporting Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

^b Includes 3,549 individuals who did not report their citizenship at time of doctorate.

^c Includes Alaska Natives.

^d Does not include non-Hispanic Native Hawaiians or Other Pacific Islanders.

e Includes doctorate recipients who did not indicate their race and ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and non-Hispanic Native Hawaiian or Other Pacific Islanders.

f Includes a small number of doctorates who completed a previous version of the survey form and indicated medicinal/pharmaceutical chemistry, which was removed from the taxonomy in 2007.

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

TABLE 3-30. Statistical profile of doctorate rec			,		otaaj.				Science	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
All doctorate recipients (number)	48,112	10,628	1,320	7,179	2,129	8,029	2,325	1,656	878	1,393	1,777	7,197	511	994	935	3,292	576	889
									Percent									
Sex																		
Male	54.4	48.5	8.08	51.2	32.0	71.8	64.1	79.8	61.6	70.9	80.2	41.4	38.4	68.0	54.2	28.8	37.5	48.9
Female	45.5	51.3	39.0	48.7	67.8	28.1	35.9	20.0	38.3	28.9	19.6	58.6	61.6	31.8	45.7	71.2	62.5	51.0
Unknown	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.1
Citizenship																		
U.S. citizen and permanent resident	61.2	65.4	51.7	66.7	69.5	47.6	51.1	38.6	62.9	43.4	47.2	71.8	80.0	32.5	65.6	84.8	76.0	66.7
Temporary visa holder	31.4	28.5	41.1	28.1	22.0	45.6	41.2	54.2	32.3	49.9	46.5	20.5	13.3	59.9	27.9	7.2	16.5	24.6
Unknown	7.4	6.1	7.2	5.2	8.5	6.8	7.7	7.1	4.8	6.7	6.3	7.7	6.7	7.6	6.5	8.0	7.5	8.7
Marital status																		
Never married	27.2	28.2	22.1	30.9	23.1	33.9	35.4	29.4	27.4	37.1	36.9	26.2	24.1	32.8	28.3	25.8	23.4	20.9
Married	50.9	52.3	59.5	50.7	53.1	47.8	45.9	53.7	53.2	44.7	44.4	46.9	48.7	48.0	50.4	43.8	49.8	50.4
Separated	0.5	0.5	D	0.3	D	0.3	D	D	D	D	D	0.6	D	D	D	0.5	D	0.7
Divorced	3.6	2.9	2.7	2.5	4.5	2.0	2.2	1.5	2.6	1.9	2.0	4.4	7.6	D	D	4.8	5.4	4.8
Marriage-like relationship	6.2	7.1	4.9	7.9	5.9	5.7	5.0	4.3	8.2	5.8	6.6	8.7	9.2	6.2	7.2	9.6	9.7	9.0
Widowed	0.3	0.1	D	D	D	0.1	D	D	D	D	D	0.3	D	D	D	0.2	D	0.6
Unknown	11.3	8.9	9.7	7.7	12.6	10.2	11.2	10.4	8.0	10.1	9.7	12.9	8.8	10.7	10.2	15.2	10.2	13.6
Bachelor's in same field as doctorate	52.3	47.7	46.2	49.8	41.4	63.1	72.3	49.2	51.5	65.3	68.0	50.5	44.8	54.5	39.0	63.6	43.2	17.9
Percent with master's	73.6	52.9	79.8	39.9	79.8	65.5	42.3	82.0	69.6	77.0	69.4	82.0	83.4	80.7	82.0	80.3	88.9	84.5
								I	Number									
Postgraduation status ^a																		
Definite postgraduation study	10,627	4,191	333	3,467	391	2,796	947	220	364	416	849	1,503	91	82	111	,	85	102
Definite employment	18,741	2,212	450	856	906	2,452	529	860	257	510	296	-,	179	631	489	1,022		442
Seeking employment or study	12,198	2,776	373	1,876	527	1,878	568	382	181	308	439	,	188	163	229	688	135	216
Other ^b	1,350	523	30	444	49	147	42	40	16	35	35	139	9	16	15	71	14	14
									Percent									
Definite postgraduation study ^{c,d}																		
Postdoc fellowship	53.0	58.5	34.2	59.8	67.0	41.3	39.5	30.9	40.1	58.2	38.3	69.1		61.0	72.1	71.6		52.9
Postdoc research associateship	41.6	35.8	63.1	34.2	27.1	56.3	58.7	65.9	56.3	39.9	59.0	20.7	D	32.9	21.6	15.8		D
Traineeship	1.4	1.0	D	0.9	D	1.0	D	D	2.2	D	0.8	2.7	D	D	D	2.3	D	D
Intern, clinical residency	2.5	3.3	D	3.7	D	0.5	D	D	D	D	1.1	5.7	D	D	D	D	D	D
Other study	1.5	1.5	D	1.4	D	0.9	1.2	D	D	D	0.8	1.9	D	D	D	D	D	D

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

	· .	,							Science	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
Definite employment ^e																		
Academe	52.1	48.1	44.4	40.8	57.0	36.5	21.0	32.6	40.5	61.8	29.1	61.3	69.8	59.7	77.7	46.3	80.2	64.0
Government	6.6	12.8	18.4	12.3	10.5	5.9	6.6	60.2	35.4	30.6	9.1	10.6	6.1	14.1	8.0	10.1	5.6	14.5
Industry/business ^f	26.1	26.8	27.1	36.1	17.9	52.4	66.9	2.7	15.6	3.7	55.7	13.8	9.5	17.3	6.5	20.1	5.6	9.5
Nonprofit	4.4	7.5	5.3	5.4	10.5	2.3	2.8	2.1	4.3	1.4	1.7	7.7	7.3	4.1	4.3	12.0	5.9	7.9
Other ^g	10.8	4.8	4.7	5.5	4.2	2.9	2.6	2.4	4.3	2.5	4.4	6.7	7.3	4.8	3.5	11.5	2.8	4.1
Primary activity ^{h,i}																		
R&D	38.1	44.4	56.3	46.8	36.5	62.1	67.7	72.2	51.1	45.2	60.9	35.9		63.6	30.6	24.6		33.7
Teaching	36.1	28.0	18.3	25.4	35.2	25.2	19.4	17.7	27.2	46.3	19.7	36.9	58.3	24.6	53.2	25.5	54.5	41.9
Management or administration	14.0	11.5	12.3	9.6	12.8	3.9	4.4	3.7	6.4	1.7	5.0		11.9	4.0	10.1	6.8		14.0
Professional services	9.3	12.3	7.7	13.8	13.2	6.1	6.6	3.5	10.6	5.9	9.3	17.3	8.3	6.0	3.9	40.9		7.7
Other	2.5	3.8	5.5	4.4	2.3	2.7	1.8	2.9	4.7	8.0	5.0	2.2	1.2	1.8	2.2	2.2	2.5	2.7
Secondary activity ^{h,i} R&D	31.6	29.9	27.6	25.5	35.1	26.0	17.2	19.8	34.5	42.9	24.0	36.3	55.4	25.9	48.5	28.3	46.2	41.7
Teaching	19.4	19.1	21.2	16.0	20.9	12.6	4.8	14.2	15.7	19.7	6.8	25.3		36.2	25.9	20.8		23.4
Management or administration	11.8	15.5	16.8	17.0	13.4	13.1	22.6	11.7	11.5	5.7	14.0	10.5	8.9	11.8	7.8	13.0		8.9
Professional services	7.1	7.8	8.4	7.2	8.1	6.0	6.4	5.0	8.5	4.7	8.6	6.5	7.1	5.6	4.1	8.4		7.7
Other	1.6	1.9	1.2	1.9	2.2	1.0	1.4	1.2	1.3	0.6	0.0	1.3	0.6	0.8	0.9	2.0		1.4
No secondary activity	28.5	25.8	24.8	32.3	20.3	41.3	47.5	48.0	28.5	26.3	46.6	20.1	13.7	19.6	12.9	27.5		16.9
Activity(ies) unknown	6.0	6.5	7.6	7.5	5.0	6.8	5.7	6.7	8.6	7.6	5.7	6.0	6.1	4.6	5.1	7.8	3.8	6.1
Employment location																		
United States ^j	90.9	88.4	79.8	90.5	90.6	91.4	92.2	91.6	89.9	92.2	89.5	88.3	86.6	76.5	84.3	96.1	93.1	89.1
New England	6.0	6.9	3.6	9.8	5.8	7.2	11.7	5.1	5.1	5.7	9.8	6.2	8.4	7.0	5.1	5.6	6.3	6.8
Middle Atlantic	13.6	12.1	5.3	12.7	14.9	16.9	22.1	16.3	9.3	16.7	16.6	13.9	15.6	12.2	10.0	16.8	14.9	12.4
East North Central	11.7	10.4	11.3	10.0	10.3	9.5	11.9	5.5	5.1	15.3	11.1	11.8	11.2	7.6	11.9	13.7	16.0	10.9
West North Central	6.3	7.2	8.9	6.9	6.6	3.7	4.2	2.8	2.3	5.5	3.7	5.6	4.5	2.9	5.9	7.7		4.8
South Atlantic	17.0	17.9	14.7	16.6	20.8	14.7	13.0	12.2	16.7	22.2	10.1	19.3	15.1	22.7	20.9	16.6	19.4	20.8
East South Central	4.4	4.5	4.4	3.4	5.6	3.1	3.0	2.8	2.3	3.9	3.7	3.4	2.8	2.1	3.1	4.9		2.3
West South Central	8.8	8.5	9.6	6.0	10.4	8.8	7.0	5.9	26.5	7.1	7.8	7.3	3.9	5.1	7.4	8.6		8.1
Mountain	6.2	5.8	10.0	5.3	4.2	5.5	3.8	5.2	8.6	3.9	9.5	6.0	8.4	4.3	4.5	6.8		7.7
Pacific and insular	15.9	13.9	10.7	18.7	11.0	21.4	15.3	34.9	13.6	11.6	16.9	13.5		11.7	13.5	14.2		14.3
Not in United States	9.0	11.5	20.0	9.5	9.3	8.5	7.8	8.4	10.1	7.6	10.5	11.6	12.8	23.3	15.7	3.8		10.9
Location unknown	0.1	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.6	0.2	0.0	0.1	0.0	0.0

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

	_								Science	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
								Me	dian years	3								
Age at doctorate	32.5	31.4	32.6	30.7	35.8	30.3	29.5	31.3	31.9	30.1	30.2	32.8	35.4	31.1	34.0	31.7	34.7	35.7
Time to doctorate																		
From bachelor's	9.5	8.6	9.3	8.0	12.0	7.8	7.0	8.8	9.0	7.5	7.5	9.6	12.0	8.3	10.7	8.7	11.0	12.3
From graduate school start	7.8	7.0	7.7	6.7	9.5	6.7	5.9	7.4	7.4	6.7	6.7	7.9	9.7	6.9	8.8	6.9	9.2	9.9
Male doctorate recipients																		
Number in field	26,176	5,158	802	3,675	681	5,766	1,490	1,322	541	987	1,426	2,979	196	676	507	949	216	435
% of total doctorate recipients	54.4	48.5	60.8	51.2	32.0	71.8	64.1	79.8	61.6	70.9	80.2	41.4	38.4	68.0	54.2	28.8	37.5	48.9
								ı	Percent									
Citizenship																		
U.S. citizen and permanent resident	54.3	61.6	50.2	65.2	55.9	46.2	50.1	38.6	58.2	43.3	46.8	65.1	82.7	31.8	64.1	84.4	74.5	63.4
Temporary visa holder	38.2	31.7	42.4	29.2	32.7	46.8	41.9	54.2	37.2	49.6	46.6	27.3	12.2	60.2	29.4	7.4	18.1	28.3
Unknown	7.5	6.6	7.4	5.6	11.3	7.0	8.1	7.2	4.6	7.1	6.6	7.6	5.1	8.0	6.5	8.2	7.4	8.3
Marital status																		
Never married	28.2	27.2	18.8	29.9	22.5	34.6	35.3	30.6	27.5	39.1	37.2	25.8	25.0	32.7	28.0	24.3	21.8	17.9
Married	52.5	54.5	65.6	52.3	53.3	47.6	45.7	53.3	55.8	43.0	44.6	51.2	53.6	49.0	52.1	47.8	53.7	58.9
Separated	0.4	D	D	0.3	D	D	D	D	D	D	D	D	D	D	D	D		D
Divorced	2.3	2.1	D	2.0	D	1.7	D	D	D	D	D	2.9	D	D	D	D		D
Marriage-like relationship	5.3	6.3	3.9	7.0	5.4	5.1	5.0	4.1	5.4	5.8	5.8	7.0	9.2	4.9	6.5	8.1		6.9
Widowed	0.1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	0.0	D
Unknown	11.3	9.6	9.6	8.5	15.3	10.5	12.0	10.1	7.6	10.5	10.2	12.5	8.2	11.1	11.0	15.5	10.2	12.9
Bachelor's in same field as doctorate	55.5	46.0	48.6	47.3	36.1	62.8	72.2	48.3	53.0	65.7	68.2	48.1	50.5	54.1	42.0	60.7	41.7	20.5
Percent with master's	72.5	50.2	80.5	39.2	74.3	66.8	42.7	81.7	76.0	75.7	68.5	81.1	82.1	80.0	81.7	76.7	92.1	85.5
								1	Number									
Postgraduation status ^a																		
Definite postgraduation study	6,190	2,179	195	1,848	136	2,047	633	179	227	320	688	524	36	60	60	289		50
Definite employment	10,006	970	285	420	265	1,762	326	697	168	332	239	1,414	64	427	266	327	108	222
Seeking employment or study	6,490	1,262	227	870	165	1,304	344	292	102	223	343	644	78	104	122	187	53	100
Other ^b	668	271	11	244	16	96	26	23	8	17	22	45	2	8	7	12	7	9
Definite postgraduation study ^{c,d}								-	Percent									
Postdoc fellowship	48.6	56.7	32.3	58.7	64.7	40.3	D	D	39.2	D	D	64.1	61.1	60.0	76.7	66.8	62.1	42.0

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

· · · · · · · · · · · · · · · · · · ·	_								Science	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
Postdoc research associateship	46.3	36.3	D	33.9	D	57.1	61.3	66.5	56.8	38.8	59.4	26.5	38.9	D	D	20.4	D	D
Traineeship	1.4	1.0	D	D	D	1.1	D	D	D	D	D	3.1	D	D	D	D	D	D
Intern, clinical residency	2.5	4.4	D	D	D	D	D	D	D	D	D	5.2	D	D	D	9.3	D	D
Other study	1.2	1.6	D	D	D	D	D	D	D	D	1.0	1.1	0.0	D	D	D	0.0	0.0
Definite employment after doctorate ^e																		
Academe	46.1	44.5	45.6	39.0	52.1	33.5	16.6	30.3	37.5	60.8	25.5	61.7	70.3	58.8	78.6	45.3	81.5	59.5
Government	7.4	13.6	17.2	12.1	12.1	5.6	D	D	14.3	4.2	7.9	13.3	D	16.4	9.0	13.8	D	17.1
Industry/business ^f	34.9	32.2	28.8	37.6	27.2	55.5	70.9	61.7	40.5	30.7	61.5	13.9	9.4	16.9	6.0	21.1	5.6	12.2
Nonprofit	3.5	4.8	4.2	5.2	4.9	2.3	2.8	D	D	D	2.1	6.2	7.8	3.7	3.0	11.3	4.6	7.2
Other ^g	8.0	4.8	4.2	6.0	3.8	3.1	D	D	D	D	2.9	5.0	D	4.2	3.4	8.6	D	4.1
Primary activity ^{h,i} R&D	46.9	53.4	58.8	53.3	47.8	63.7	71.3	72.4	50.7	43.2	64.6	41.0	25.0	63.2	30.0	30.3	35.0	33.3
Teaching	30.6	23.7	17.6	23.1	31.2	22.8	15.3	17.2	23.0	47.5	16.2	35.5		22.5	53.0	22.9		41.1
•	12.0	9.7	10.7	8.4	10.5	4.0	3.3	17.2 D	23.0 D	47.3 D	10.2 D	8.8	36.3 D	22.5 D	11.1	8.4	55.5 D	15.0
Management or administration Professional services	7.8	10.2	8.8	12.1	8.9	6.3	7.2	D	D	D	D	12.6	D	D	3.2	36.0	D	8.7
Other	2.6	3.0	4.2	3.1	1.6	3.2	2.9	3.1	5.3	1.3	4.8	2.2	1.7	2.2	2.8	2.4	1.0	1.9
Secondary activity ^{h,i}																		
R&D	28.7	27.8	27.9	24.7	32.4	25.3	17.3	19.5	34.2	45.5	20.1	35.3	56.7	24.8	49.4	26.3		41.1
Teaching	18.3	18.4	23.7	15.5	17.4	11.6	4.9	12.6	16.4	18.2	6.1	27.5	10.0	37.0	24.5	22.9		24.6
Management or administration	13.8	19.7	19.5	19.4	20.2	14.4	24.1	13.0	D	6.9	D	11.6	D	12.0	8.7	16.2	D	9.7
Professional services	6.6	7.3	7.3	7.3	7.3	5.5	5.5	4.6	D	4.6	D	6.6	D	5.6	4.7	8.1	D	9.2
Other	1.4	1.3	1.1	1.6	1.2	1.0	1.3	1.2	1.3	0.7	D	1.1	D	1.0	1.2	1.3	1.0	1.4
No secondary activity	31.1	25.5	20.6	31.5	21.5	42.2	46.9	49.1	28.3	24.1	49.8	17.8	16.7	19.6	11.5	25.3	13.6	14.0
Activity(ies) unknown	6.4	8.2	8.1	9.3	6.8	6.8	5.8	6.5	9.5	8.7	4.2	6.1	6.3	4.4	4.9	9.2	4.6	6.8
Employment location																		
United States ^j	89.2	85.4	78.2	88.6	87.9	91.0	91.7	92.0	91.1	D	D	83.8		71.4	83.8	96.0		86.0
New England	6.2	7.8	D	D	7.2	6.9	11.0	D	D	6.0	9.2	5.9		6.3	4.9	4.6	4.6	7.2
Middle Atlantic	13.0	10.9	4.9	11.7	16.2	17.6	24.2	16.6	8.9	17.2	18.0	11.6	14.1	11.5	10.5	13.5		9.5
East North Central	11.5	10.2	13.0	8.1	10.6	9.6	12.9	5.9	3.6	16.3	10.9	11.9	D	D	11.7	15.6		13.5
West North Central	5.5	6.6	7.0	6.9	5.7	3.3	4.0	2.6	D	4.8	D	5.2	D	D	6.0	8.9	5.6	3.6
South Atlantic	15.6	15.5	11.9	14.8	20.4	13.3	12.6	11.2	14.9	20.5	9.2	19.8		21.1	21.4	20.5		18.0
East South Central	3.8	4.8	D	D	5.3	3.0	1.8	2.7	D	3.9	D	2.8	D	D	3.0	3.7	4.6	D
West South Central	9.2	8.2	10.2	7.1	7.9	8.5	6.4	5.5	D	5.4	D	6.8	D	D	7.1	8.0		8.1
Mountain	6.0	5.9	9.1	5.0	3.8	5.7	2.8	D	8.9	D	9.2	5.7	D	D	5.3	7.3	4.6	7.7

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

TABLE 3-30. Statistical profile of doctorate recip	sionto in ocionoc	nordo, b	y oox and	a nota of	otaay.	2001			Science	fields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
Pacific and insular	17.5	14.3	10.5	19.3	10.6	22.5	15.6	35.6	13.1	11.4	15.9	12.9	20.3	10.8	12.0	12.2	14.8	15.8
Not in United States	10.7	14.5	21.4	11.4	12.1	8.9	8.3	8.0	8.9	D	D	16.0	14.1	28.3	16.2	3.7	9.3	14.0
Location unknown	0.1	0.1	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.2	1.6	0.2	0.0	0.3	0.0	0.0
								Me	dian years	8								
Age at doctorate	32.2	31.5	32.7	31.0	34.1	30.5	29.7	31.3	32.7	30.2	30.3	33.3	35.6	31.7	34.3	32.4	35.1	36.3
Time to doctorate																		
From bachelor's	9.1	8.5	9.4	8.1	10.8	7.8	7.0	8.6	9.3	7.5	7.5	9.9	11.8	8.5	10.7	9.0	11.1	12.8
From graduate school start	7.7	6.9	7.6	6.7	8.6	6.8	6.0	7.4	7.9	6.8	6.7	8.0	9.7	6.9	8.7	7.1	9.2	9.9
Female doctorate recipients																		
Number in field	21,884	5,457	515	3,499	1,443	2,254	834	332	336	403	349	4,214	315	316	427	2,343	360	453
% of total doctorate recipients	45.5	51.3	39.0	48.7	67.8	28.1	35.9	20.0	38.3	28.9	19.6	58.6	61.6	31.8	45.7	71.2	62.5	51.0
								l	Percent									
Citizenship																		
U.S. citizen and permanent resident	69.6	69.1	54.4	68.4	76.2	51.2	52.9	39.2	70.5	44.2	48.4	76.6		34.2	67.4	84.9		70.0
Temporary visa holder	23.4	25.5	39.2	27.0	17.0	42.8	40.0	54.5	24.7	50.6	46.7	15.7	14.0	59.5	26.2	7.1	15.6	21.2
Unknown	7.0	5.4	6.4	4.6	6.9	5.9	7.1	6.3	4.8	5.2	4.9	7.7	7.6	6.3	6.3	8.0	7.5	8.8
Marital status																		
Never married	26.2	29.2	27.4	31.9	23.4	32.2	35.5	24.7	27.4	32.5	35.8	26.5	23.5	33.2	28.8	26.4		23.8
Married	49.2	50.3	50.3	49.1	53.2	48.3	46.3	56.0	49.1	49.1	43.8	43.9	45.7	46.2	48.5	42.2		42.4
Separated	0.7	D	D	0.3	D	D	D	D	0.3	0.5	D	D	D	D	D	D	D	D
Divorced	5.2	3.7	D	2.9	D	2.8	D	2.4	2.1	3.5	D	5.5	D	D	D	D	D	D
Marriage-like relationship Widowed	7.2 0.5	7.9 D	6.6 D	8.9 D	6.1 D	7.2 D	5.2 D	5.4 0.3	12.8 D	6.0 0.2	10.0 D	9.9 D	9.2 D	9.2 D	8.0 D	10.2 D	10.3 D	11.0 D
Unknown	11.0	8.2	9.3	6.8	11.0	9.1	9.7	11.1	8.3	8.2	7.2	13.0	9.2	9.2	8.9	15.0		14.1
Bachelor's in same field as doctorate	48.7	49.3	42.7	52.5	44.0	63.9	72.4	53.0	49.1	64.8	67.3	52.3	41.3	55.7	35.6	64.8	44.2	15.5
Percent with master's	75.1	55.5	79.0	40.8	82.7	62.2	41.6	83.1	59.5	80.4	73.4	82.7	84.1	82.0	82.7	81.7	86.9	83.7
									Number									
Postgraduation status ^a																		
Definite postgraduation study	4,436	2,012	138	1,619	255	748	314	41	137	95	161	979	55	22	51	743	56	52
Definite employment	8,735	1,242	165	436	641	690	203	163	89	178		1,637	115	204	223	695	180	220
Seeking employment or study	5,708	1,514	146	1,006	362	574	224	90	79	85	96	975	110	59	107	501	82	116
Other ^b	682	252	19	200	33	51	16	8	6	13	13	94	7	8	8	59	7	5

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

	_								Science	fields								
acteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	
									Darsont									
Definite postgraduation study ^{c,d}									Percent									
Postdoc fellowship	59.2	60.3	37.0	61.1	68.2	44.3	D	D	41.6	D	D	71.8	76.4	63.6	66.7	73.5	60.7	63
Postdoc research associateship	34.9	35.2	37.0 D	34.5	00.2 D	54.0	53.5	63.4	55.5	44.2	57.1	17.6	70.4 D	03.0 D	00.7 D	14.0	00.7 D	0.
Traineeship	1.5	1.0	D	34.3 D	D	0.7	55.5 D	03.4 D	33.3 D	44.2 D	37.1 D	2.5	D	D	D	14.0 D	D	
'	2.6	2.1	D	D	D	0.7 D	D	D	D	D	D	5.9	D	D	D	D	D	
Intern, clinical residency Other study	1.8	1.3	D	D	D	D	D	0.0	D	D	0.0	2.2	D	D	0.0	D	D	
Saloi study	1.0	1.0	U	U	D	D	D	0.0	U	D	0.0	2.2	D	D	0.0	D	D	
Definite employment after doctorate ^e																		
Academe	59.0	51.0	42.4	42.4	59.0	44.2	28.1	42.3	46.1	63.5	43.9		69.6	61.8	76.7	46.8	79.4	68
Government	5.7	12.2	20.6	12.4	9.8	6.5	D	54.0	25.8	30.3	14.0	8.2	D	9.3	6.7	8.3	D	1
Industry/business ^f	16.0	22.6	24.2	34.6	14.0	44.3	60.6	D	18.0	2.8	31.6	13.7	9.6	18.1	7.2	19.6	5.6	(
Nonprofit	5.3	9.5	7.3	5.5	12.8	2.3	3.0	D	D	D	D	9.0	7.0	4.9	5.8	12.4	6.7	8
Other ^g	14.0	4.8	5.5	5.0	4.4	2.6	D	D	D	D	10.5	8.2	D	5.9	3.6	12.9	D	4
Primary activity ^{h,i}																		
R&D	28.2	37.7	51.9	40.9	31.9	58.0	62.0	71.3	51.8	48.8	44.0	31.6		64.4	31.3	22.0	36.8	34
Teaching	42.2	31.3	19.5	27.5	36.8	31.3	26.0	20.0	34.9	44.0	36.0	38.1	58.3	28.9	53.6	26.7	54.0	42
Management or administration	16.2	12.8	14.9	10.7	13.7	3.6	6.3	D	D	D	D	6.8	D	D	9.0	6.0	D	13
Professional services	10.9	13.9	5.8	15.3	15.0	5.8	5.7	D	D	D	D	21.3	D	D	4.7	43.1	D	(
Other	2.4	4.3	7.8	5.6	2.6	1.4	0.0	2.0	3.6	0.0	6.0	2.1	0.9	1.0	1.4	2.2	3.4	3
Secondary activity ^{h,i}																		
R&D	34.9	31.6	27.3	26.3	36.2	27.8	17.2	21.3	34.9	38.1	42.0	37.2	54.6	28.4	47.4	29.3	47.1	42
Teaching	20.6	19.6	16.9	16.5	22.3	14.9	4.7	21.3	14.5	22.6	10.0	23.4	16.7	34.5	27.5	19.8	25.3	22
Management or administration	9.5	12.3	12.3	14.8	10.6	10.0	20.3	6.0	D	3.6	D	9.5	D	11.3	6.6	11.5	D	
Professional services	7.6	8.2	10.4	7.1	8.5	7.5	7.8	6.7	D	4.8	D	6.4	D	5.7	3.3	8.5	D	(
Other	1.8	2.3	1.3	2.2	2.6	1.1	1.6	1.3	1.2	0.6	0.0	1.4	0.9	0.5	0.5	2.3	0.0	
No secondary activity	25.5	26.0	31.8	33.1	19.9	38.7	48.4	43.3	28.9	30.4	32.0	22.1		19.6	14.7	28.5	19.0	19
Activity(ies) unknown	5.6	5.1	6.7	5.7	4.2	6.8	5.4	8.0	6.7	5.6	12.3	5.9	6.1	4.9	5.4	7.2	3.3	5
Employment location																		
United States ^j	92.8	90.7	82.4	92.4	91.7	92.5	93.1	90.2	87.6	D	D	92.2	87.8	87.3	84.8	96.1	94.4	92
New England	5.9	6.2	D	D	5.3	8.0	12.8	D	D	5.1	12.3	6.4	6.1	8.3	5.4	6.0	7.2	(
Middle Atlantic	14.3	13.0	6.1	13.8	14.4	15.2	18.7	14.7	10.1	15.7	10.5	15.9		13.7	9.4	18.4	16.7	1
East North Central	12.0	10.5	8.5	11.9	10.1	9.4	10.3	3.7	7.9	13.5	12.3	11.7	D	D	12.1	12.8	16.1	
West North Central	7.2	7.6	12.1	6.9	7.0	4.6	4.4	3.7	D	6.7	D	5.9	D	D	5.8	7.2	5.0	5
South Atlantic	18.6	19.8	19.4	18.3	20.9	18.3	13.8	16.6	20.2	25.3	14.0		17.4	26.0	20.2	14.8	20.6	23
South Atlantic	18.6	19.8	19.4	18.3	20.9	18.3	13.8	10.6	20.2	∠5.3	14.0	18.9	17.4	∠0.0	20.2	14.8	20.0	-

TABLE S-38. Statistical profile of doctorate recipients in science fields, by sex and field of study: 2007

	_								Science	ields								
Characteristic	All fields	Life sciences	Agricultural sciences/ natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political sciences/ international relations	Psychology	Sociology	Other social sciences
East South Central	5.2	4.3	D	D	5.8	3.6	4.9	3.1	D	3.9	D	4.0	D	D	3.1	5.5	3.3	D
West South Central	8.3	8.7	8.5	4.8	11.4	9.6	7.9	8.0	D	10.1	D	7.8	D	D	7.6	8.9	7.8	8.2
Mountain	6.4	5.7	11.5	5.5	4.4	4.9	5.4	D	7.9	D	10.5	6.2	D	D	3.6	6.6	5.0	7.7
Pacific and insular	14.0	13.6	10.9	18.1	11.2	18.6	14.8	31.9	14.6	11.8	21.1	14.0	11.3	13.7	15.2	15.1	11.7	12.7
Not in United States	7.1	9.2	17.6	7.6	8.1	7.5	6.9	9.8	12.4	D	D	7.8	12.2	12.7	15.2	3.9	5.6	7.7
Location unknown	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Me	dian years	;								
Age at doctorate	33.0	31.3	32.3	30.3	37.1	30.1	29.2	31.4	30.9	30.0	30.0	32.5	35.3	30.5	33.7	31.3	34.1	35.3
Time to doctorate																		
From baccalaureate	10.0	8.7	9.2	7.9	13.1	7.6	6.9	9.0	8.5	7.5	7.6	9.5	12.0	8.1	10.7	8.6	10.7	11.8
From graduate school start	8.2	7.0	7.7	6.5	10.2	6.3	5.7	7.5	6.8	6.3	6.7	7.7	9.9	7.0	8.9	6.9	9.0	9.9

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

^a Includes only respondents who responded to post graduation status.

b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

^d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

^e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

⁹ "Other" is mainly composed of elementary and secondary schools.

h Includes only respondents with definite employment plans.

¹ Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

^j Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE S-39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2007

	_				Engir	neering field	ds			
			Aerospace/	Chemical	Civil and	Electrical and		Materials/	Mechanical	
Characteristic	All fields	Total	aeronautical	and related	related	related	Industrial	metallurgical	and related	Othe
All doctorate recipients (number)	48,112	7,744	267	921	865	2,409	280	679	1,128	1,195
					Perce	ent				
Sex Male	54.4	79.2	88.0	74.4	73.3	84.6	72.5	74.5	87.7	70.4
Female	45.5	20.7	11.6	25.3	73.3 26.6	15.3	27.1	25.3	12.3	29.5
Unknown	0.1	0.1	0.4	0.3	0.1	0.1	0.4	0.1	0.0	0.1
	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1
Citizenship U.S. citizen and permanent resident	61.2	32.7	43.4	35.4	33.2	24.1	26.4	38.3	30.2	46.0
Temporary visa holder	31.4	59.2	44.6	57.4	60.1	67.2	61.1	56.1	63.4	44.4
Unknown	7.4	8.1	12.0	7.2	6.7	8.7	12.5	5.6	6.4	9.5
Marital status										
Never married	27.2	33.5	31.5	39.8	28.0	33.8	28.2	33.3	35.6	31.8
Married	50.9	50.1	47.9	45.4	56.3	50.3	53.2	51.3	51.1	47.3
Separated	0.5	0.3	D	0.7	D	D	D	D	D	
Divorced	3.6	1.5	D	1.0	1.5	1.1	D	2.1	D	
Marriage-like relationship	6.2	3.6	D	4.5	3.1	3.0	D	4.9	3.0	4.7
Widowed	0.3	0.1	D	D	D	D	D	D	D	
Unknown	11.3	10.8	14.2	8.7	10.4	11.2	15.4	8.5	8.7	13.6
Bachelor's in same field as doctorate	52.3	75.4	78.3	82.5	75.0	76.3	68.6	72.3	83.9	63.2
Percent with master's	73.6	78.2	81.6	59.3	88.4	84.8	85.4	69.7	84.3	68.8
	-				Numb	er				
Postgraduation status ^a	40.00-			400				400		
Definite postgraduation study	10,627	1,406	45	196	151	275	30	169	236	304
Definite employment	18,741	3,038	101	364	354	1,084	124	229	423	359
Seeking employment or study	12,198	2,303 147	79	265 10	257 11	740 33	71 11	208 19	343 25	340 34
Other ^b	1,350	147	4	10			11	19	25	34
Definite postgraduation study ^{c,d}					Perce	m				
Postdoc fellowship	53.0	35.1	D	D	24.5	28.4	D	D	D	48.4
Postdoc research associateship	41.6	61.3	62.2	58.2	69.5	66.9	63.3	63.9	68.2	47.0
Traineeship	1.4	1.5	D	D	D	D	D	D	D	
Intern, clinical residency	2.5	1.1	D	D	D	D	D	D	D	2.6
Other study	1.5	1.0	D	D	D	2.5	0.0	0.0	0.0	
Definite employment ^e										
Academe	52.1	16.2	11.9	6.9	22.9	14.0	36.3	7.9	17.3	24.2
Government	6.6	8.0	21.8	2.7	15.5	5.6	4.0	7.0	7.1	12.0
Industry/business ^f	26.1	71.8	59.4	87.4	57.9	76.9	56.5	82.5	71.2	57.1
Nonprofit	4.4	1.9	D	D	D	1.8	D	D	1.4	3.9
Other ^g	10.8	2.0	D	D	D	1.6	D	D	3.1	2.8
Primary activity ^{h,i}										
R&D	38.1	73.1	74.7	80.2	35.8	86.0	59.8	78.9	74.9	61.5
Teaching	36.1	8.5	7.4	4.4	11.4	6.4	17.9	5.6	11.0	11.8
Management or administration	14.0	5.3	5.3	4.1	11.7	3.0	7.7	5.6	2.8	9.2
Professional services	9.3 2.5	9.6 3.5	9.5	6.4 4.9	33.7 7.2	2.6	11.1 3.4	8.0 1.9	8.2 3.1	12.7 4.7
Other	2.3	3.3	3.2	4.9	1.2	1.9	3.4	1.9	3.1	4.1
Secondary activity ^{h,i}	01.0	44.0	20.0	2.2	00.0	0.0	00.1	10.0	10.0	00.5
R&D	31.6	14.8	20.0	9.9	28.0	8.6	23.1	16.0	13.8	22.2
Teaching	19.4	9.4	D 26.3	4.4	15.1	9.2	21.4	D	8.4	11.8
Management or administration Professional services	11.8 7.1	19.5 6.8	26.3 7.4	21.2 9.0	13.3 9.3	18.3 5.4	17.1 8.5	30.0 3.3	19.7 7.4	19.5 7.4
FIUIESSIUIIAI SEI VICES	1.1	0.0	1.4	9.0	3.3	5.4	0.0	3.3	1.4	1.4

TABLE S-39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2007

		_			Engi	neering field	ds			
						Electrical				
Characteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	and related	Industrial	Materials/ metallurgical	Mechanical and related	Other
Other	1.6	1.3	D	1.5	0.6	1.3	1.7	D	1.5	1.2
No secondary activity	28.5	48.1	41.1	54.1	33.7	57.3	28.2	45.1	49.1	37.9
Activity(ies) unknown	6.0	6.0	5.9	5.5	6.2	5.4	5.6	7.0	7.6	5.8
Employment location										
United States ^j	90.9	90.1	88.1	90.1	89.5	91.1	88.7	88.6	90.1	89.4
New England	6.0	5.8	D	8.8	2.3	6.5	D	D	6.4	5.6
Middle Atlantic	13.6	11.9	5.0	15.7	7.3	10.9	13.7	14.0	10.9	16.7
East North Central	11.7	9.1	9.9	10.2	5.9	5.6	17.7	13.1	14.7	9.5
West North Central	6.3	3.5	5.0	3.0	4.8	2.5	4.8	4.4	3.1	5.0
South Atlantic	17.0	13.1	25.7	9.9	20.9	9.9	22.6	8.3	11.1	17.0
East South Central	4.4	2.3	D	2.5	3.4	1.8	D	D	3.3	2.2
West South Central	8.8	11.1	5.9	18.4	11.9	9.2	8.9	5.2	14.9	10.0
Mountain	6.2	6.2	D	3.3	7.1	6.4	D	7.0	7.6	6.7
Pacific and insular	15.9	26.0	22.8	17.9	24.3	37.4	10.5	30.6	16.8	15.9
Not in United States	9.0	9.8	11.9	9.9	10.5	8.8	11.3	11.4	9.5	10.6
Location unknown	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0
					Median	years				
Age at doctorate	32.5	30.7	30.7	29.3	31.7	30.7	31.5	30.2	30.7	30.5
Time to doctorate										
From bachelor's	9.5	7.9	7.9	6.8	8.7	8.1	9.1	7.4	7.9	7.9
From graduate school start	7.8	6.7	7.0	5.7	7.4	7.0	7.7	6.7	6.9	6.7
Male doctorate recipients										
Number in field	26,176	6,131	235	685	634	2,038	203	506	989	841
% of total doctorate recipients	54.4	79.2	88.0	74.4	73.3	84.6	72.5	74.5	87.7	70.4
					Perce	ent				
Citizenship U.S. citizen and permanent resident	E4.2	31.5	42.6	34.6	33.4	24.0	22.7	37.2	29.8	43.6
·	54.3 38.2	60.3	45.5	57.7	60.1	67.3	65.5	57.2 57.3	63.6	46.7
Temporary visa holder										
Unknown	7.5	8.1	11.9	7.7	6.5	8.7	11.8	5.5	6.6	9.6
Marital status										
Never married	28.2	33.4	32.8	40.4	26.0	34.3	27.6	33.4	35.4	30.6
Married	52.5	50.8	46.0	45.1	60.1	50.1	55.7	51.6	51.2	49.3
Separated	0.4	D	D	D	D	D	D	D	D	D
Divorced	2.3	1.3	D	D	D	D	D	1.6	1.0	D
Marriage-like relationship	5.3	3.2	D	4.2	2.5	2.7	D	4.7	D	3.6
Widowed	0.1	D 10.0	D	D	D	D	D	D	D	D
Unknown	11.3	10.9	D	9.2	9.6	11.3	D	8.7	9.1	14.0
Bachelor's in same field as doctorate	55.5	76.3	78.7	83.2	77.0	76.4	69.5	72.3	83.9	64.4
Percent with master's	72.5	79.1	82.1	58.7	89.0	84.9	84.7	70.6	84.4	70.9
Doctoroduction status ^a					Numb	oer				
Postgraduation status ^a Definite postgraduation study	6,190	1,115	38	153	111	242	21	135	206	209
Definite employment	10,006	2,478	91	276	271	930	97	173	373	267
Seeking employment or study	6,490	2,478 1,754	91 D	180	182	604	97 D	1/3	373 297	207
	668	1,734	D	7	7	27	D	10	297	223
Other ^b	000	100	U	,	Perce		U	10	22	23
Definite postgraduation study ^{c,d}					Perce	71 IL				
Postdoc fellowship	48.6	34.6	31.6	D	D	D	28.6	D	D	48.3
Postdoc research associateship	46.3	62.1	D	56.9	71.2	66.5	D	65.2	68.4	D
			_				_			_

TABLE S-39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2007

		-			Engi	neering field	ds			
						Electrical				
Characteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	and related	Industrial	Materials/ metallurgical	Mechanical and related	Othe
Traineeship	1.4	1.3	D	D	D	D	D	D	D	
Intern, clinical residency	2.5	D.0	D	D	D	D	D	D	D	[
Other study	1.2	D	D	0.0	D	2.9	0.0	0.0	0.0	_
Definite employment after doctorate ^e										
Academe	46.1	14.9	D	5.4	20.7	13.2	D	5.2	D	23.
Government	7.4	8.3	D	D	D	6.0	D	D	D	12.
Industry/business ^f	34.9	73.2	59.3	90.2	59.0	77.5	62.9	85.5	71.6	57.
Nonprofit	3.5	1.8	D	D	D	D	0.0	D	1.6	
Other ^g	8.0	1.9	0.0	D	D	D	D	D	D	Ī
Primary activity ^{h,i} R&D	46.9	74.8	D	82.8	36.6	86.7	D	80.4	76.0	63.
		7.2				5.6			9.9	11.
Teaching	30.6		D	D	10.5		16.5	D		
Management or administration	12.0	5.3	5.7	D	12.1	D	D	D	D	9.
Professional services	7.8	9.3	10.3	5.3	33.9	D	D	D	D	11.
Other	2.6	3.3	3.4	4.6	7.0	D	D	2.5	3.2	4.
Secondary activity ^{h,i}										
R&D	28.7	13.6	D	D	28.0	7.7	D	14.1	12.0	20
Teaching	18.3	9.3	D	D	14.4	9.0	18.7	D	D	12
Management or administration	13.8	20.7	28.7	24.0	12.5	19.3	D	33.1	20.2	
Professional services	6.6	6.8	D	8.8	9.3	5.3	D	D	D	
Other	1.4	1.5	D	1.9	0.8	1.5	2.2	D	1.8	
No secondary activity	31.1	48.2	D	51.1	35.0	57.3	D	43.6	50.6	36
Activity(ies) unknown	6.4	5.9	4.4	5.1	5.2	5.2	6.2	5.8	8.3	6
Employment location										
United States ^j	89.2	89.5	86.8	89.5	D	91.0	D	88.4	D	89
New England	6.2	6.2	D	9.1	D	D	D	D	5.9	
Middle Atlantic	13.0	11.6	D	16.7	7.0	10.4	D	11.6	9.9	18
East North Central	11.5	9.0	D	8.0	4.8	5.6	D	D	15.0	9
West North Central	5.5	3.4	D	D	D	D	D	D	D	4
South Atlantic	15.6	12.8	D	9.8	21.0	10.4	17.5	7.5	D	15
East South Central	3.8	2.1	D	D	D	D	D	D	2.4	
West South Central	9.2	11.1	6.6	18.1	11.4	9.0	D	D	D	10
Mountain	6.0	6.1	D	D	D	6.1	D	D	7.0	
Pacific and insular	17.5	26.1	D	19.2	22.9	36.8	D	31.2	17.4	14
Not in United States	10.7	10.3	13.2	10.5	D	8.9	D	11.6	D	10
Location unknown	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.5	(
					Median					
Age at doctorate	32.2	30.8	31.0	29.5	31.9	30.7	31.9	30.6	30.7	30
Time to doctorate										
From bachelor's	9.1	8.0	7.9	6.8	9.0	8.0	9.8	7.7	7.9	8
From graduate school start	7.7	6.8	6.9	5.7	7.6	6.9	8.0	6.7	6.9	6
Female doctorate recipients										
Number in field	21,884	1,602	31	233	230	368	76	172	139	35
% of total doctorate recipients	45.5	20.7	11.6	25.3	26.6	15.3	27.1	25.3	12.3	29
					Perce	ent				
Citizenship										
U.S. citizen and permanent resident	69.6	37.5	51.6	38.2	32.6	24.7	36.8	41.9	33.1	51
Temporary visa holder	23.4	55.3	38.7	57.1	60.4	67.7	50.0	52.9	61.9	39
		7.2	9.7	4.7	7.0	7.6	13.2	5.2	5.0	9.

TABLE S-39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2007

	_				Engii	neering field	ds			
			A = = = = = = = /	Chamiaal	Civil and	Electrical		Matariala/	Machaniaal	
aracteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	and related	Industrial	Materials/ metallurgical	Mechanical and related	Oth
Marital status										
Never married	26.2	34.0	22.6	38.6	33.5	31.5	30.3	33.1	37.4	34
Married	49.2	47.9	64.5	46.8	46.1	51.6	47.4	50.6	50.4	42
Separated	0.7	D	D	D	D	D	D	D	D	
Divorced	5.2	2.4	0.0	D	D	D	D	3.5	D	
Marriage-like relationship	7.2	5.1	D	5.2	4.8	4.6	D	5.2	D	7
Widowed	0.5	D	D	D	D	D	D	D	D	
Unknown	11.0	9.9	D	6.0	12.2	10.3	D	7.6	5.8	12
Bachelor's in same field as doctorate	48.7	72.3	77.4	81.1	70.0	75.8	67.1	72.7	83.5	60
Percent with master's	75.1	75.1	80.6	61.4	87.4	84.5	86.8	66.9	83.5	64
•					Numb	per				
Postgraduation status ^a	4 400	001	-				_	• 1	**	
Definite postgraduation study	4,436	291	7	43	40	33	9	34	30	
Definite employment	8,735	560	10	88	83	154	27	56	50	
Seeking employment or study	5,708	549	10	85	75	136	22	60	46	1
Other ^b	682	41	0	3	4	6	5	9	3	
Definite postgraduation study ^{c,d}	-				Perce	ent				
Postdoc fellowship	59.2	37.1	D	D	D	D	D	41.2	33.3	4
Postdoc research associateship	34.9	58.4	D	62.8	65.0	69.7	D	58.8	66.7	
Traineeship	1.5	2.1	D	02.0 D	D D	03.7 D	D	D	D	
Intern, clinical residency	2.6	D	D	D	D	D	D	D	D	
Other study	1.8	D	D	D	0.0	0.0	0.0	0.0	0.0	
Definite employment after doctorate ^e										
Academe	59.0	22.1	D	11.4	30.1	18.8	D	16.1	D	2
Government	5.7	6.6	D	D	D	3.2	D	D	D	
Industry/business ^f	16.0	65.9	60.0	78.4	54.2	73.4	33.3	73.2	68.0	5
Nonprofit	5.3	2.5	D	D	D	D	D	D	D	
Other ^g	14.0	2.9	D	D	D	D	D	D	D	
Primary activity ^{h,i}										
R&D	28.2	65.4	D	72.0	33.3	81.3	D	74.0	67.3	5
Teaching	42.2	14.0	D	D	14.7	11.8	23.1	D	18.4	1
Management or administration	16.2	5.4	D	D	10.7	D	D	D	D	
Professional services	10.9	10.9	D	9.8	33.3	D	D	D	D	1
Other	2.4	4.4	0.0	6.1	8.0	D	D	0.0	2.0	
Secondary activity ^{h,i}										
R&D	34.9	20.5	D	D	28.0	13.9	D	22.0	26.5	2
Teaching	20.6	10.1	D	D	17.3	10.4	30.8	D	D	1
Management or administration	9.5	14.1	D	12.2	16.0	12.5	D	20.0	16.3	
Professional services	7.6	7.1	D	9.8	9.3	5.6	D	D	D	
Other	1.8	0.6	0.0	0.0	0.0	0.0	0.0	D	0.0	
No secondary activity	25.5	47.6	D	63.4	29.3	57.6	D	50.0	38.8	4
Activity(ies) unknown	5.6	6.6	20.0	6.8	9.6	6.5	3.7	10.7	2.0	
Employment location										
United States ^j	92.8	92.5	100.0	92.0	D	92.2	D	89.3	D	8
New England	5.9	3.9	D	8.0	D	D	D	D	10.0	
Middle Atlantic	14.3	13.2	D	12.5	8.4	13.6	D	21.4	18.0	1
East North Central	12.0	9.5	D	17.0	9.6	5.8	D	D	12.0	
West North Central	7.2	3.9	D	D	D	D	D	D	D	
South Atlantic	18.6	14.5	D	10.2	20.5	6.5	40.7	10.7	D	2
East South Central	5.2	3.0	D	D	D	D	D	D	10.0	

TABLE S-39. Statistical profile of doctorate recipients in engineering fields, by sex and field of study: 2007

	_				Engi	neering field	ds			
Characteristic	All fields	Total	Aerospace/ aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/ metallurgical	Mechanical and related	Other
West South Central	8.3	11.1	0.0	19.3	13.3	10.4	D	D	D	8.7
Mountain	6.4	6.3	D	D	D	7.8	D	D	12.0	D
Pacific and insular	14.0	25.7	D	13.6	28.9	40.9	D	28.6	12.0	20.7
Not in United States	7.1	7.5	D	8.0	D	7.8	D	10.7	D	10.9
Location unknown	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					Median	years				
Age at doctorate	33.0	30.1	30.2	29.2	31.2	30.6	30.3	29.2	30.6	29.7
Time to doctorate										
From baccalaureate	10.0	7.7	7.8	6.7	8.4	8.3	8.1	6.9	8.0	7.4
From graduate school start	8.2	6.7	7.2	5.7	7.3	7.3	7.2	6.0	7.2	6.6

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

^a Includes only respondents who responded to post graduation status.

b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

⁹ "Other" is mainly composed of elementary and secondary schools.

^h Includes only respondents with definite employment plans.

¹ Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

¹ Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								Non-so	cience and e	ngineering f	ields							
										Human	ities				Otl	ner fields		
	All		Education	Education Education	on Teacher	Teaching			American	English language/	Foreign language/				Business	Communi-	Fields	Field not
Characteristic	fields	Total	administration	research	education	U	Other	Total	literature	literature	literature	History	Other	Total	management	cations		
All doctorate recipients (number)	48,112	6,444	2,159	2,667	298	879	441	5,112	334	572	608	940	2,658	2,958	1,506	555	876	21
Sex									Perce	ent								
Male	54.4	32.6	37.2	30.5	24.5	32.3	29.3	50.6	47.9	37.9	39.0	59.0	53.4	49.1	57.2	37.1	42.6	47.6
Female	45.5	67.3	62.8	69.4	75.5	67.7	70.7	49.3	52.1	62.1	61.0	41.0	46.4	50.7	42.4	62.7	57.2	52.4
Unknown	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.2	0.2	0.0
Citizenship																		
U.S. citizen and permanent resident	61.2	83.0	89.3	81.4	80.2	77.4	76.0	76.7	90.4	79.7	66.3	84.4	74.0	57.2	49.4	67.7	65.3	0.0
Temporary visa holder	31.4	9.4	2.9	12.1	9.1	17.2	8.8	15.5	6.0	9.1	27.8	10.7	17.0	33.1	42.1	24.5	23.7	0.0
Unknown	7.4	7.6	7.8	6.5	10.7	5.5	15.2	7.8	3.6	11.2	5.9	4.9	9.0	9.7	8.5	7.7	11.0	100.0
Marital status																		
Never married	27.2	15.0	11.0	17.2	12.4	20.4	12.0	25.8	26.0	24.1	29.9	25.6	25.2	21.0	20.5	28.3	17.8	0.0
Married	50.9	59.8	64.3	58.5	56.7	60.0	47.4	48.0	50.0	46.3	47.4	54.0	46.2	52.2	56.4	47.9	49.0	0.0
Separated	0.5	0.8	0.6	1.0	D	D	D	0.7	D	D	D	D	D	0.5	0.5	D	D	0.0
Divorced	3.6	7.3	7.6	7.3	10.1	6.3	5.7	4.7	6.0	4.2	6.3	3.8	4.6	4.4	2.9	4.5	7.1	0.0
Marriage-like relationship	6.2	4.2	2.4	5.1	D	5.5	D	8.3	12.0	7.2	6.4	7.7	8.8	4.7	3.4	5.0	6.7	0.0
Widowed	0.3	0.8	0.9	0.9	D	D	D	0.3	D	D	D	D	D	0.4	0.4	D	D	0.0
Unknown	11.3	12.1	13.2	9.9	14.4	6.9	29.5	12.1	4.8	16.8	8.9	7.7	14.3	16.7	15.9	13.3	18.3	100.0
Bachelor's in same field as doctorate	52.3	31.1	38.0	25.5	33.2	37.4	17.5	51.8	40.1	58.6	49.2	54.1	51.7	31.2	32.7	40.2	23.7	na
Percent with master's	73.6	89.4	88.8	90.9	87.6	93.5	76.0	85.5	89.5	84.4	88.2	89.4	83.2	83.3	79.9	90.6	86.4	0.0
									Numb	per								
Postgraduation status ^a																		
Definite postgraduation study	10,627	242	50	129	10	31	22	353	26	33	34	95	165	136	59	30	47	0
Definite employment	18,741	3,822	1,386	1,535	173	526	202	2,483	196	278	323	473	1,213	1,683	941	305	437	0
Seeking employment or study	12,198	1,458	409	669	67	219	94	1,534	80	150	181	284	839	630	263	140	227	0
Other ^b	1,350	181	47	81	5	33	15	153	9	20	25	21	78	60	28	17	15	0
									Perce	ent								
Definite postgraduation study ^{c,d}		4						-				-	00.0	0				
Postdoc fellowship	53.0	47.9	50.0	46.5	D	D	54.5	83.0	D	D	D	89.5	80.6	64.0	55.9	70.0		
Postdoc research associateship	41.6	36.0	26.0	36.4	D	48.4	D	12.2	D	D	38.2	D	10.9	29.4	35.6	D	D	na
Traineeship	1.4	4.5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	na
Intern, clinical residency	2.5	3.3	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Other study	1.5	8.3	D	9.3	0.0	0.0	D	D	0.0	0.0	D	0.0	3.0	D	D	D	0.0	na

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								NOH-SC	dence and e	ngineering f	ieias							
										Human	ities				Oth	ner fields		
				Education	on					English	Foreign				Business			Fie
naracteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	Fields nec	n knov
Definite employment ^e																		
Academe	52.1	53.3	33.0	63.1	65.9	72.1	58.4	84.5	92.3	88.8	88.2	85.4	80.8	78.0	81.8	86.6	63.6	
Government	6.6	3.5	3.8	3.3	6.4	2.1	4.0	2.0	D	D	D	3.6	1.7	4.0	D	D	8.5	
Industry/business ^f	26.1	4.1	2.8	5.3	5.2	3.0	5.9	3.5	D	D	2.5	3.4	4.1	10.0	11.5	5.9	9.6	
Nonprofit	4.4	3.3	2.1	4.1	4.6	1.7	8.4	4.1	D	D	D	3.0	6.8	4.3	1.9	2.6	10.5	
Other ^g	10.8	35.8	58.3	24.2	17.9	21.1	23.3	5.9	3.6	6.1	6.8	4.7	6.5	3.8	D	D	7.8	
Primary activity ^{h,i}																		
R&D	38.1	9.7	4.0	12.8	9.7	12.7	17.6	13.6	10.4	12.2	12.5	17.9	13.1	37.6	48.6	26.3	21.6	
Teaching	36.1	39.3	20.4	42.9	55.8	70.2	47.2	75.4	80.7	79.8	81.6	72.3	73.0	45.1	37.7	65.5	46.9	
Management or administration	14.0	40.8	69.9	28.3	26.1	12.1	22.7	4.8	3.6	5.3	3.0	5.3	5.1	10.8	9.6	5.7	17.0	
Professional services	9.3	8.5	4.8	14.0	4.2	3.6	9.7	3.2	D	D	2.3	3.3	4.1	5.4	3.6	2.1	11.5	
Other	2.5	1.7	0.9	2.0	4.2	1.4	2.8	2.9	D	D	0.7	1.1	4.6	1.1	0.5	0.4	3.0	
Secondary activity ^{h,i}																		
R&D	31.6	27.2	12.9	33.0	36.4	43.5	31.3	54.7	54.7	55.1	65.6	59.3	49.9	39.8	35.7	53.0	39.6	
Teaching	19.4	22.1	26.5	20.0	18.2	17.7	23.3	16.0	13.5	14.8	14.4	18.4	16.1	36.0	45.6	22.8	24.1	
Management or administration	11.8	9.3	8.9	10.2	4.8	8.5	11.9	6.8	6.8	9.1	3.6	3.8	8.3	6.6	5.4	6.4	9.5	
Professional services	7.1	11.4	13.2	10.7	12.7	8.3	10.8	3.3	D	3.4	3.6	D	4.0	4.9	3.4	5.3	8.0	
Other	1.6	1.5	1.2	1.5	1.8	2.2	1.1	3.4	D	2.3	0.3	D	5.7	1.0	1.0	0.7	1.3	
No secondary activity	28.5	28.5	37.4	24.6	26.1	19.7	21.6	15.8	20.8	15.2	12.5	15.7	16.1	11.6	8.9	11.7	17.5	
Activity(ies) unknown	6.0	4.9	4.6	4.4	4.6	4.4	12.9	5.8	2.0	5.4	5.6	4.4	7.1	7.5	6.8	7.9	8.7	
Employment location																		
United States ^j	90.9	95.2	97.8	94.4	91.9	91.6	96.0	92.5	95.4	93.5	93.2	92.6	91.6	87.6	87.5	91.1	85.4	
New England	6.0	4.1	4.4	3.9	D	4.8	D	7.7	6.1	6.8	6.5	8.0	8.2	5.3	6.6	2.0	5.0	
Middle Atlantic	13.6	11.7	11.5	10.9	8.1	15.4	12.4	16.3	18.4	21.2	20.7	16.1	13.7	13.7	12.9	12.1	16.7	
East North Central	11.7	13.8	12.2	15.1	19.7	12.4	13.4	14.0	10.7	15.5	13.6	15.0	13.8	13.3	13.4	16.7	10.5	
West North Central	6.3	9.9	13.0	8.6	8.7	6.3	8.4	7.6	8.7	5.0	7.7	6.3	8.5	5.6	5.6	6.6	5.0	
South Atlantic	17.0	19.4	20.3	18.8	17.9	20.0	17.3	15.9	18.4	15.1	14.2	18.6	15.2	18.0	18.3	15.7	19.0	
East South Central	4.4	7.0	6.6	6.8	D	8.7	D	5.1	7.1	6.5	5.3	4.2	4.7	5.1	4.8	8.2	3.7	
West South Central	8.8	9.4	9.1	10.3	9.2	7.8	9.9	7.6	8.2	8.6	5.6	7.0	8.0	7.7	8.4	7.9	5.9	
Mountain	6.2	7.7	7.5	8.3	8.7	7.2	5.4	5.7	4.1	4.3	8.7	5.5	5.6	5.6	4.6	6.9	6.9	
Pacific and insular	15.9	11.7	12.7	11.1	7.5	8.9	19.8	12.0	12.8	9.7	9.3	11.4	13.3	11.8	11.8	13.4	10.8	
Not in United States	9.0	4.7	2.2	5.5	7.5	8.4	4.0	7.4	4.6	6.5	6.5	7.4	8.3	12.2	12.3	8.9	14.4	
Location unknown	0.1	0.1	0.0	0.1	0.6	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.2	0.2	0.0	0.2	
									Median	years								

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

Maile doctorate recipients Number in field 26,176 2,103 803 814 73 284 129 2,588 160 217 237 555 1,419 1,451 862 206 7,50 7									Non-so	cience and e	ngineering fi	elds							
Characteristic Parameteristic Para											Humani	ities				Oth	er fields		
Characteristic Februs Part Characteristic Februs Characteristic Characteristi					Educati	on					English	Foreign				Business			Field
Time to declorate From bachelors Fro	staristic		Total				U	Other	Total			0 0	Hietory	Other	Total			Fields nec	not known
From bachelor's 9.5 16.6 20.1 11.0 11.0 11.0 11.1 11.2 11.1 11.5 12.3 11.2 11.8		110100	Total	adminiotration	researen	ouddation	110100	Otrioi	Total	morataro	intoraturo	intoruturo	Thotory	Othor	Total	managomone	Oddono	1100	1410111
Number in field 7,8 12,6 14,7 11,7 12,7 10,7 11,7 9,7 9,7 9,3 9,0 9,5 9,7 9,7 9,0 9,2		9.5	16.6	20.1	15.0	15.0	13.8	16.0	11 /	11 0	11 3	11.2	11 7	11.5	123	11.2	11.8	15.2	na
Number in field																		11.7	na
Number in field	e doctorate recipients																		
Notical doctorate recipients S4,4 32,6 37,2 30,5 24,5 32,3 29,3 50,6 47,9 37,9 39,0 59,0 53,4 49,1 57,2 37,1 Percent	•	26 176	2 103	803	814	73	284	129	2 588	160	217	237	555	1 419	1 451	862	206	373	10
Citizenship		,							,					,	,			42.6	47.6
Citizenship U.S. citizen and permanent resident S4.3 82.3 89.0 79.9 76.7 75.4 73.6 78.0 91.3 80.6 66.7 84.1 75.5 51.2 47.1 60.2 Femicent resident Temporary visa holder 38.2 10.1 3.6 14.0 11.0 16.9 10.1 14.5 5.6 11.1 27.0 10.3 15.6 38.9 44.7 30.6 Unknown 7.5 7.7 7.3 6.1 12.3 7.7 16.3 7.5 3.1 8.3 6.3 5.6 8.9 9.9 82. 9.2 Marial status Never married 28.2 12.4 9.0 13.6 11.0 20.1 10.1 23.3 22.5 19.8 29.1 23.2 22.9 20.0 20.2 24.8 Married 52.5 66.8 72.2 66.6 58.9 59.2 55.0 51.7 55.0 48.8 47.3 57.5 50.2 55.5 57.5 52.4 Separated 0.4 D D D D D D D D D D D D D	o or total accionate rosipionic	•	02.0	02	00.0	20	02.0	20.0	00.0			00.0	00.0			V	0		
resident 54.3 82.3 89.0 79.9 76.7 75.4 73.8 78.0 91.3 80.6 66.7 84.1 75.5 51.2 47.1 60.2 Temporary visa holder 38.2 10.1 3.6 14.0 11.0 16.9 10.1 14.5 5.6 11.1 27.0 10.3 15.6 38.9 44.7 30.6 Unknown 7.5 7.7 7.3 6.1 12.3 7.7 16.3 7.5 3.1 8.3 6.3 6.3 6.8 8.9 9.9 8.2 9.2 Marital status Never married 28.2 12.4 9.0 13.6 11.0 20.1 10.1 23.3 22.5 19.8 29.1 23.2 22.9 20.0 20.2 24.8 Married 52.5 66.8 72.2 66.6 58.9 59.2 55.0 51.7 55.0 48.8 47.3 57.5 50.2 55.5 57.5 52.4 Separated 0.4 D D D D D D D D D D D D D D D D D D D	Citizenship									1 0100									
Temporary visa holder 382 10.1 3.6 14.0 11.0 16.9 10.1 14.5 5.6 11.1 27.0 10.3 15.6 38.9 44.7 30.6 Unknown 7.5 7.7 7.3 6.1 12.3 7.7 16.3 7.5 3.1 8.3 6.3 6.8 8.9 9.9 8.2 9.2 Marital status Several marined 52.5 66.8 7.2 66.6 58.9 59.2 56.0 51.7 55.0 48.8 47.3 57.5 50.2 55.5 57.5 52.4 Separated 0.4 D D D D D D D D D	'	54.3	82.3	89.0	79.9	76.7	75.4	73.6	78.0	91.3	80.6	66.7	84.1	75.5	51.2	47.1	60.2	57.1	0.0
Marital status Never married 28.2 12.4 9.0 13.6 11.0 20.1 10.1 23.3 22.5 19.8 29.1 23.2 22.9 20.0 20.2 24.8		38.2	10 1	3.6	14.0	11.0	16.0	10.1	1/1.5	5.6	11 1	27.0	10.3	15.6	38 Q	11.7	30.6	31.1	0.0
Never married 28.2 12.4 9.0 13.6 11.0 20.1 10.1 23.3 22.5 19.8 29.1 23.2 22.9 20.0 20.2 24.8																		11.8	100.0
Married 52.5 66.8 72.2 66.6 58.9 59.2 55.0 51.7 55.0 48.8 47.3 57.5 50.2 55.5 57.5 52.4 Separated 0.4 D<	Marital status																		
Separated	Never married	28.2	12.4	9.0	13.6	11.0	20.1	10.1	23.3	22.5	19.8	29.1	23.2	22.9	20.0	20.2	24.8	17.4	0.0
Divorced 2.3 4.4 4.1 4.5 D 3.9 D 3.9 D D 5.5 3.8 3.4 2.6 D D	Married	52.5	66.8	72.2	66.6	58.9	59.2	55.0	51.7	55.0	48.8	47.3	57.5	50.2	55.5	57.5	52.4	53.9	0.0
Marriage-like relationship 5.3 3.9 D 4.9 D D D B.0 11.9 7.8 8.4 6.1 8.3 3.7 3.1 D <th< td=""><td>Separated</td><td>0.4</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>0.6</td><td>D</td><td>D</td><td>D</td><td>D</td><td>0.0</td></th<>	Separated	0.4	D	D	D	D	D	D	D	D	D	D	D	0.6	D	D	D	D	0.0
Widowed O.1 D D D D D D D D D	Divorced	2.3	4.4	4.1	4.5	D	3.9	D	3.9	D	D	5.5	3.8	3.4	2.6	D	D	2.9	0.0
Unknown 11.3 11.7 11.7 9.1 13.7 10.2 30.2 12.4 5.0 17.5 9.7 8.5 14.5 17.7 16.0 15.5	Marriage-like relationship	5.3	3.9	D	4.9	D	D	D	8.0	11.9	7.8	8.4	6.1	8.3	3.7	3.1	D	D	0.0
Bachelor's in same field as doctorate S5.5 27.9 32.9 21.3 26.0 39.1 15.5 53.1 46.9 57.6 44.7 57.7 52.7 32.0 31.8 45.1	Widowed	0.1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	0.0
Postgraduation statusa	Unknown	11.3	11.7	11.7	9.1	13.7	10.2	30.2	12.4	5.0	17.5	9.7	8.5	14.5	17.7	16.0	15.5	20.6	100.0
Postgraduation status ^a Definite postgraduation study Seeking employment or study Other ^b Definite postgraduation study ^{c,d} Postdoc fellowship 48.6 46.9 48.6 48.9 48.9 D D D D D D D D D D D D D		55.5	27.9	32.9	21.3	26.0	39.1	15.5	53.1	46.9	57.6	44.7	57.7	52.7	32.0	31.8	45.1	26.0	na
Postgraduation status Postgraduation study 6,190 81 19 45 D D D 175 13 13 12 55 82 69 40 11	ercent with master's	72.5	89.9	89.8	91.4	84.9	92.6	77.5	84.9	90.0	83.4	86.9	89.0	82.6	81.5	79.6	88.3	84.2	0.0
Definite postgraduation study 6,190 81 19 45 D D D 175 13 13 12 55 82 69 40 11 Definite employment 10,006 1,304 534 490 D D D 1,267 93 108 130 273 663 811 525 108 Seeking employment or study 6,490 431 134 191 10 71 25 787 43 54 74 176 440 308 159 57 Other ^b 668 54 18 24 0 9 9 3 64 2 7 5 12 38 32 17 5 Definite postgraduation study.cd Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D D 78.0 62.3 D D										Numb	er								
Definite employment 10,006 1,304 534 490 D D D 1,267 93 108 130 273 663 811 525 108 Seeking employment or study 6,490 431 134 191 10 71 25 787 43 54 74 176 440 308 159 57 Other b 668 54 18 24 0 9 3 64 2 7 5 12 38 32 17 5 Definite postgraduation study.cd Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D D 78.0 62.3 D D	9																		
Seeking employment or study Other Dot 6,490 431 134 191 10 71 25 787 43 54 74 176 440 308 159 57 Other Dot Percent Percent Definite postgraduation study ^{c,d} Postdoc fellowship 48.6 46.9 47.4 48.9 D D D D D D D D D D D D D		,																18	C
Other b 668 54 18 24 0 9 3 64 2 7 5 12 38 32 17 5 Experiment of the postgraduation study cd Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D D 78.0 62.3 D D	, ,	*	,						,									178	(
Percent Definite postgraduation study ^{c,d} Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D 78.0 62.3 D D		*																92	(
Definite postgraduation study ^{c,d} Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D 78.0 62.3 D D	Other ^b	668	54	18	24	0	9	3	64		•	5	12	38	32	17	5	10	(
Postdoc fellowship 48.6 46.9 47.4 48.9 D D D 82.3 D D D D 78.0 62.3 D D										Perce	ent								
Daatalaa yaaaayah		48.6	46.9	47.4	48.9	D	D	D	82.3	D	D	D	D	78.0	62.3	D	D	61.1	na
Postado research 46.3 40.7 31.6 37.8 D D D 12.6 D D D D 31.9 37.5 D associateship	Postdoc research associateship	46.3	40.7	31.6	37.8	D	D	D	12.6	D	D	D	D	D	31.9	37.5	D	D	na
Traineeship 1.4 D D D D D D D D D D D D	Traineeship	1.4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	na

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								Non-so	cience and e	ngineering f	elds							
										Human	ities				Oth	ner fields		
				Educati	on					English	Foreign				Business			Field
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	Fields nec	
Intern, clinical residency	2.5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	na
Other study	1.2	D	D	D	D	D	D	D	0.0	0.0	0.0	0.0	D	D	D	D	0.0	na
Definite employment after doctorate ^e																		
Academe	46.1	50.8	27.9	65.5	D	D	D	83.7	91.4	90.7	87.7	83.9	80.5	77.6	81.9	85.2	60.1	na
Government	7.4	4.1	3.7	4.3	D	D	D	2.3	D	D	D	D	1.7	4.4	D	D	10.1	n
Industry/business ^f	34.9	4.9	3.2	5.9	D	D	D	3.2	D	D	D	2.9	4.1	11.1	12.2	6.5	10.7	n
Nonprofit	3.5	3.5	2.2	4.7	D	D	D	4.5	D	D	D	D	6.9	3.8	D	D	10.7	n
Other ^g	8.0	36.7	62.9	19.6	D	D	D	6.3	D	D	8.5	4.8	6.8	3.1	D	D	8.4	na
Primary activity ^{h,i}																		
R&D	46.9	9.1	3.3	14.7	D	D	10.5	14.2	D	9.7	D	16.3	14.5	39.7	51.0	24.0	14.9	n
Teaching	30.6	34.5	15.6	39.2	46.0	72.7	56.1	74.8	79.8	84.5	82.6	72.9	71.7	43.8	36.1	65.0	54.0	r
Management or administration	12.0	49.0	77.2	34.5	38.0	11.3	21.1	4.5	D	D	D	6.6	4.2	10.3	9.2	D	D	1
Professional services	7.8	6.1	3.1	10.8	D	D	D	3.7	D	D	D	3.5	5.0	4.9	3.3	D	D	1
Other	2.6	1.3	0.8	0.9	D	0.7	D	2.9	D	D	0.0	8.0	4.6	1.3	0.4	0.0	5.0	r
Secondary activity ^{h,i}																		
R&D	28.7	25.0	13.0	30.4	36.0	42.0	35.1	54.5	53.9	64.1	67.8	58.1	48.8	38.2	33.7	53.0	42.9	r
Teaching	18.3	22.7	26.8	20.3	14.0	19.3	21.1	17.3	15.7	12.6	15.7	18.6	18.0	39.1	48.0	26.0	20.5	
Management or administration	13.8	8.7	6.4	11.4	D	D	D	7.1	D	D	D	D	9.1	7.2	5.9	7.0	11.2	
Professional services	6.6	12.2	13.0	12.1	D	6.7	D	3.1	D	D	D	1.9	3.4	4.4	3.3	5.0	7.5	
Other	1.4	1.3	1.2	1.1	D	D	D	3.0	D	D	8.0	1.9	5.0	0.8	1.2	D	D	
No secondary activity	31.1	30.0	39.5	24.8	24.0	18.0	24.6	15.0	18.0	10.7	9.1	17.1	15.6	10.3	8.0	9.0	18.0	
Activity(ies) unknown	6.4	5.3	3.7	5.3	3.8	6.8	14.9	6.4	4.3	4.6	6.9	5.5	7.2	7.4	6.7	7.4	9.6	ı
Employment location																		
United States ^j	89.2	94.2	96.4	93.3	D	90.1	D	92.3	D	D	93.1	92.3	91.4	85.7	87.0	88.0	80.3	- 1
New England	6.2	4.3	4.5	4.1	D	3.7	D	6.8	D	D	3.8	8.1	6.6	5.4	6.7	D	D	
Middle Atlantic	13.0	11.1	11.4	10.0	13.5	10.6	16.4	14.7	19.4	24.1	23.1	11.7	12.1	12.9	13.9	9.3	12.4	
East North Central	11.5	15.5	13.5	16.9	26.9	14.3	14.9	14.4	8.6	16.7	10.8	16.5	14.8	12.8	13.1	13.9	11.2	
West North Central	5.5	10.5	13.7	8.6	D	7.5	D	7.4	6.5	4.6	7.7	6.6	8.3	5.3	5.3	5.6	5.1	
South Atlantic	15.6	17.5	17.4	19.0	D	19.9	D	15.9	18.3	12.0	14.6	17.9	15.5	18.6	18.5	20.4	18.0	
East South Central	3.8	5.7	5.1	6.1	D	6.2	D	5.9	8.6	6.5	3.8	4.0	6.6	4.9	3.6	13.9	3.4	
West South Central	9.2	11.2	12.5	9.6	11.5	10.6	13.4	8.2	10.8	9.3	4.6	8.8	8.1	8.3	9.3	6.5	6.2	
Mountain	6.0	7.1	5.8	8.2	D	8.7	D	6.3	D	D	13.8	6.2	5.4	4.9	4.0	6.5	6.7	
Pacific and insular	17.5	10.9	12.0	10.4	D	8.7	D	12.3	10.8	10.2	10.0	12.1	13.4	11.0	11.2	9.3	11.2	
Not in United States	10.7	5.8	3.6	6.7	D	9.9	D	7.6	D	D	6.9	7.7	8.4	14.2	12.8	12.0	19.7	
Location unknown	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.0	0.0	1

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								Non-so	cience and e	engineering f	ields							
										Human	ities				Oth	ner fields		
				Educati	on					English	Foreign				Business			Field
	All		Education	Education	Teacher	Teaching			American	language/	language/				and	Communi-	Fields	not
Characteristic	fields	Total	administration	research	education	fields	Other	Total	literature	literature	literature	History	Other	Total	management	cations	nec	known
									Median	years								
Age at doctorate	32.2	40.9	43.6	39.6	43.4	36.6	41.0	34.8	33.7	34.7	35.1	35.7	34.7	36.0	35.0	35.8	39.1	na
Time to doctorate																		
From bachelor's	9.1	16.4	19.2	15.0	17.2	12.6	15.3	11.3	11.0	11.3	11.0	11.8	11.3	12.4	11.7	11.3	15.2	na
From graduate school start	7.7	12.7	14.9	11.7	13.0	9.9	11.9	9.3	9.8	9.0	9.0	9.3	9.5	9.7	9.0	8.7	12.0	na
Female doctorate recipients																		
Number in field	21,884	4,340	1,356	1,852	225	595	312	2,518	174	355	371	385	1,233	1,499	639	348	501	11
% of total doctorate recipients	45.5	67.3	62.8	69.4	75.5	67.7	70.7	49.3	52.1	62.1	61.0	41.0	46.4	50.7	42.4	62.7	57.2	52.4
									Perce	ent								
Citizenship																		
U.S. citizen and permanent resident	69.6	83.4	89.4	82.1	81.3	78.3	76.9	75.5	89.7	79.2	66.0	84.7	72.5	63.3	52.9	72.4	71.7	0.0
Temporary visa holder	23.4	9.0	2.5	11.3	8.4	17.3	8.3	16.6	6.3	7.9	28.3	11.4	18.7	27.6	39.0	21.0	18.4	0.0
Unknown	7.0	7.5	8.1	6.6	10.2	4.4	14.7	7.8	4.0	13.0	5.7	3.9	8.8	9.1	8.1	6.6	10.0	100.0
Marital status																		
Never married	26.2	16.2	12.2	18.8	12.9	20.5	12.8	28.5	29.3	26.8	30.5	29.1	28.1	22.1	21.1	30.5	18.2	0.0
Married	49.2	56.4	59.6	54.9	56.0	60.3	44.2	44.4	45.4	44.8	47.4	49.1	41.8	49.4	55.4	45.4	45.5	0.0
Separated	0.7	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	0.0
Divorced	5.2	8.7	9.7	8.5	D	7.4	D	5.6	D	D	6.7	3.9	6.1	6.2	D	D	10.2	0.0
Marriage-like relationship	7.2	4.3	D	5.2	D	D	5.4	8.7	12.1	6.8	5.1	9.9	9.4	5.6	3.8	D	D	0.0
Widowed	0.5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	0.0
Unknown	11.0	12.3	14.0	10.2	14.7	5.4	29.2	11.6	4.6	16.3	8.4	6.5	13.7	15.3	15.0	11.8	16.2	100.0
Bachelor's in same field as doctorate	48.7	32.7	41.1	27.4	35.6	36.6	18.3	50.7	33.9	59.2	52.0	49.1	50.7	30.6	34.1	37.4	22.2	na
Percent with master's	75.1	89.2	88.3	90.8	88.4	93.9	75.3	86.3	89.1	85.1	88.9	89.9	84.3	85.5	80.9	92.2	88.4	0.0
									Numl	ber								
Postgraduation status ^a																		
Definite postgraduation study	4,436	161	31	84	D	D	D	178	13	20	22	40	83	67	19	19	29	0
Definite employment	8,735	2,518	852	1,045	D	D	D	1,216	103	170	193	200	550	872	416	197	259	0
Seeking employment or study	5,708	1,027	275	478	57	148	69	747	37	96	107	108	399	322	104	83	135	0
Other ^b	682	127	29	57	5	24	12	89	7	13	20	9	40	28	11	12	5	0

TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								Non-so	cience and e	ngineering f	ields							
										Human	ities				Oth	ner fields		
				Educati	on					English	Foreign				Business			Fie
Characteristic	All fields	Total	Education administration	Education research	Teacher education	Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	Fields nec	
									Perce	nt					-			
Definite postgraduation study ^{c,d} Postdoc fellowship	59.2	48.4	51.6	45.2	D	D	D	83.7	D	D	54.5	D	83.1	65.7	D	D	75.9	
Postdoc research associateship	34.9	33.5	22.6	35.7	D	D	D	11.8	D	D	D	D	D	26.9	31.6	26.3	24.1	
Traineeship	1.5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Intern, clinical residency	2.6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Other study	1.8	D	D	D	D	D	D	D	0.0	0.0	D	0.0	D	D	D	0.0	0.0	
Definite employment after doctorate ^e																		
Academe	59.0	54.6	36.2	61.9	D	D	D	85.3	93.2	87.6	88.6	87.5	81.1	78.3	81.7	87.3	66.0	
Government	5.7	3.1	3.9	2.8	D	D	D	1.6	93.2 D	07.0 D	00.0 D	07.5 D	1.8	3.6	D D	07.3 D	7.3	
,	16.0	3.7	2.6	5.1	D	D	D	3.8	D	4.1	D	4.0	4.2	8.9	10.6	5.6	8.9	
Industry/business [†] Nonprofit	5.3	3.2	2.0	3.8	D	D	D	3.8	D	4.1 D	D	4.0 D	6.7	4.7	10.0 D	5.0 D	10.4	
Other ^g	14.0	35.3	55.4	26.4	D	D	D	5.5	D	D	5.7	4.5	6.2	4.5	3.4	3.0	7.3	
		00.0				_	_	0.0	_		0		0.2		0	0.0		
Primary activity ^{h,i}	00.0	40.0		40.0		_	04.0	40.4	_	40.0	_	00.4	44.5	05.7	45.5	07.0	00.4	
R&D	28.2	10.0	4.5	12.0	D	D	21.0	13.1	D	13.8	D	20.1	11.5	35.7	45.5	27.6	26.1	
Teaching	42.2	41.8	23.5	44.6	60.0	69.1	42.9	76.1	81.6	76.9	81.0	71.6	74.6	46.3	39.8	65.7	42.0	
Management or administration	16.2	36.6	65.2	25.5	20.9	12.5	23.5	5.1	D	D	D	3.6	6.3	11.3	10.1	D	D	
Professional services	10.9	9.8	5.8	15.4	6.1	D	D	2.8	D	D	D	3.1	2.9	5.8	4.1	D	D	
Other	2.4	1.8	1.0	2.5	D	1.7	D	2.9	D	D	1.1	1.5	4.7	0.9	0.5	0.6	1.7	
Secondary activity ^{h,i}																		
R&D	34.9	28.3	12.7	34.3	36.5	44.2	29.4	55.0	55.3	49.4	64.1	60.8	51.2	41.3	38.2	53.0	37.4	
Teaching	20.6	21.8	26.2	19.8	20.0	17.0	24.4	14.7	11.7	16.3	13.6	18.0	13.9	33.0	42.6	21.0	26.5	
Management or administration	9.5	9.6	10.4	9.7	D	D	D	6.4	D	D	D	D	7.2	6.1	4.7	6.1	8.4	
Professional services	7.6	10.9	13.2	10.1	D	9.1	D	3.5	D	D	D	D	4.7	5.5	3.6	5.5	8.4	
Other	1.8	1.6	1.2	1.7	D	D	1.7	3.8	D	D	0.0	D	6.4	1.2	8.0	1.1	2.1	
No secondary activity	25.5	27.7	36.1	24.5	27.0	20.4	20.2	16.7	23.3	18.1	14.7	13.9	16.6	12.9	10.1	13.3	17.2	
Activity(ies) unknown	5.6	4.7	5.2	3.9	5.0	3.3	11.9	5.2	0.0	5.9	4.7	3.0	6.9	7.6	7.0	8.1	8.1	
Employment location																		
United States ^j	92.8	95.8	98.7	94.9	D	92.3	D	92.7	D	D	93.3	93.0	91.8	89.3	88.0	92.9	88.8	
New England	5.9	4.1	4.3	3.8	D	5.2	D	8.6	D	D	8.3	8.0	10.2	5.3	6.5	D	D	
Middle Atlantic	14.3	12.0	11.5	11.3	5.8	17.5	10.4	17.9	17.5	19.4	19.2	22.0	15.6	14.4	11.5	13.7	19.7	
East North Central	12.0	12.9	11.4	14.3	16.5	11.5	12.6	13.5	12.6	14.7	15.5	13.0	12.7	13.6	13.7	18.3	10.0	
West North Central	7.2	9.5	12.6	8.6	D	5.8	D	7.8	10.7	5.3	7.8	6.0	8.7	6.0	6.0	7.1	5.0	
South Atlantic	18.6	20.3	22.1	18.7	D	20.0	D	16.0	18.4	17.1	14.0	19.5	14.7	17.4	18.0	13.2	19.7	
East South Central	5.2	7.7	7.5	7.2	D	9.9	D	4.2	5.8	6.5	6.2	4.5	2.4	5.3	6.3	5.1	3.9	

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TABLE S-40. Statistical profile of doctorate recipients in non-science and engineering fields, by sex and field of study: 2007

								Non-so	cience and e	engineering fi	ields							
										Human	ities				Oth	ner fields		
				Educati	on					English	Foreign				Business			Field
Characteristic	All fields	Total	Education administration	Education research		Teaching fields	Other	Total	American literature	language/ literature	language/ literature	History	Other	Total	and management	Communi- cations	Fields nec	
West South Central	8.3	8.5	6.9	10.6	8.3	6.6	8.1	6.9	5.8	8.2	6.2	4.5	7.8	7.1	7.2	8.6	5.8	na
Mountain	6.4	8.1	8.6	8.4	D	6.6	D	5.1	D	D	5.2	4.5	5.8	6.2	5.3	7.1	6.9	na
Pacific and insular	14.0	12.1	13.1	11.4	D	9.0	D	11.6	14.6	9.4	8.8	10.5	13.1	12.6	12.5	15.7	10.4	na
Not in United States	7.1	4.1	1.3	5.0	D	7.7	D	7.2	D	D	6.2	7.0	8.2	10.4	11.8	7.1	10.8	na
Location unknown	0.1	0.1	0.0	0.1	8.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.2	0.2	0.0	0.4	na
									Median	years								
Age at doctorate	33.0	41.6	46.2	39.4	43.3	38.7	40.3	34.7	34.9	34.4	34.7	34.7	34.8	35.7	33.7	35.3	38.2	na
Time to doctorate																		
From baccalaureate	10.0	16.7	21.0	15.0	15.6	14.5	16.3	11.5	11.1	11.3	11.2	11.5	11.6	12.3	10.8	12.1	15.3	na
From graduate school start	8.2	12.5	14.7	11.4	12.7	10.9	11.7	9.7	9.7	9.7	9.2	9.7	9.7	9.6	8.7	9.7	11.4	na

D = suppressed to avoid disclosure of confidential information. na = not applicable; data not reported.

nec = not elsewhere classified.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

^a Includes only respondents who responded to post graduation status.

^b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for another full-time degree program.

^c Does not include respondents who indicated plans for another full-time degree program.

^d Percentages are based upon only those doctorate recipients who indicated definite postdoctoral plans for study and who indicated the type of study.

e Percentages are based upon only those doctorate recipients who indicated definite postgraduation plans for employment.

f Includes doctorate recipients who indicated self-employment.

⁹ "Other" is mainly composed of elementary and secondary schools.

^h Includes only respondents with definite employment plans.

¹ Percentages are based upon only those doctorate recipients who indicated their primary and secondary work activities.

includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

TABLE S-41. Statistical profile of doctorate recipients, by race/ethnicity and citizenship: 2007

		Total ^a		Ame	erican In	dian ^b		Asian ^c			Black			Hispanic	:		White			Multi-rac	е	Other/	unknowr	n race ^d
Characteristics	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizen	All	U.S. citizen	Non- U.S. citizer
All doctorate																								
recipients (number)	48,112	29,436	15,127	151	141	8	12,439	2,330	10,023	2,463	1,956	479	2,538	1,650	866	25,964	22,341	3,365	545	508	33	4,012	510	353
												Perce	nt											
Primary source of support ^e																								
Teaching assistantships	17.6	16.0	20.8	16.5	16.0	28.6	18.3	13.9	19.3	11.5	7.4	27.8	16.1	12.8	22.5	18.0	17.1	24.4	15.4	15.4	16.7	19.1	18.7	17.9
Research or other																								
assistantships/traineeships	31.0	20.6	51.4	8.3	8.0	14.3	53.2	31.3	58.4	15.5	10.1	36.8	21.1	14.4	33.6	23.1	20.8	38.3	23.1	22.0	40.0	30.1	22.6	39.6
Fellowships/grants	25.7	29.1	19.2	33.8	33.6	28.6	19.0	34.4	15.5	33.0	35.0	24.8	33.4	36.7	27.4	27.2	27.3	26.9	36.3	36.6	30.0	26.5	31.1	20.3
Own resources	20.4	28.5	4.5	34.6	35.2	28.6	6.6	15.6	4.5	33.6	40.6	5.7	22.2	32.6	2.4	25.6	28.7	4.6	21.5	22.8	3.3	17.4	22.9	8.5
Foreign government	1.3	0.2	3.5	D	D	D	1.6	0.5	1.8	0.8	D	D	4.4	0.0	12.6	8.0	0.1	5.3	D	D	D	3.7	D	D
Employer	3.8	5.5	0.6	5.3	5.6	0.0	1.2	4.0	0.5	5.3	6.4	1.1	2.6	3.4	1.3	5.1	5.8	0.5	2.7	D	D	3.0	D	D
Other	0.2	0.2	*	1.5	1.6	0.0	0.1	0.2	*	0.4	D	D	0.1	0.1	0.1	0.2	0.2	0.1	D	D	D	0.1	0.2	0.0
												Numb	er											
Postgraduation status ^f																								
Definite postgraduation study	10,627	6,508	4,095	25	D	D	3,280	607	2,671	388	274	113	597	378	219	6,023	5,001	1,014	146	D	D	168	D	D
Definite employment	18,741	13,264	5,437	D	D	D	4,378	814	3,558	1,024	874	148	1,060	690	368	11,699	10,425	1,260	231	D	D	281	179	86
Seeking employment/																								
study	12,198	7,469	4,699	38	38	0	4,029	717	3,309	770	587	182	679	437	242	6,352	5,441	898	141	D	D	189	D	D
Other ^g	1,350	1,062	285	D	D	D	305	127	177	87	D	D	79	67	12	824	747	77	17	17	0	33	D	D
												Perce	nt											
Postgraduation study plans ^h	36.2	32.9	43.0	26.9	D	D	42.8	42.7	42.9	27.5	23.9	43.3	36.0	35.4	37.3	34.0	32.4	44.6	38.7	D	D	37.4	D	D
Postgraduation employment plans																								
Academe	52.1	55.5	43.9	50.0	D	D	37.1	42.6	35.8	55.8	54.7	62.2	60.0	59.9	60.1	56.6	56.3	59.3	56.3	D	D	53.4	56.4	50.0
Government	6.6	7.4	4.8	19.1	D	D	4.5	5.5	4.2	7.5	7.4	8.1	7.7	7.2	8.7	7.1	7.4	4.8	9.1	D	D	6.4	D	D
Industry/business ⁱ	26.1	18.3	45.2	7.4	D	D	52.1	41.3	54.6	11.6	10.3	D	15.8	12.9	21.5	18.9	17.6	29.2	16.0	D	D	27.4	21.2	37.2
Nonprofit	4.4	5.1	2.6	7.4	D	D	3.0	4.2	2.7	5.1	5.3	D	3.9	4.5	2.7	4.8	5.2	2.3	5.2	D	D	3.6	D	D
Other ^j	10.8	13.8	3.5	16.2	D	D	3.4	6.4	2.7	20.0	22.3	6.1	12.5	15.5	7.1	12.6	13.6	4.4	13.4	D	D	9.3	10.1	5.8
Employment location ^k																								
United States	90.9	97.9	73.7	92.6	D	D	82.0	95.7	78.8	94.1	98.9	66.2	84.9	99.3	57.9	94.5	98.0	65.5	95.7	D	D	86.8	97.2	65.1
Not United States	9.0	2.0	26.2	7.4	D	D	17.9	4.3	21.0	5.8	1.0	33.8	15.1	0.7	42.1	5.4	1.9	34.5	4.3	D	D	12.5	2.8	34.9
Unknown	0.1	0.1	0.1	0.0	D	D	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	D	D	0.7	0.0	0.0

TABLE S-41. Statistical profile of doctorate recipients, by race/ethnicity and citizenship: 2007

		Total ^a		Am	erican In	dian⁵		Asian ^c			Black			Hispanic			White			Multi-rac	е	Other/u	unknowi	ı race ^d
		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.		U.S.	Non- U.S.
Characteristics	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen	All	citizen	citizen
												Median y	/ears											
Age at doctorate	32.5	33.2	31.7	38.2	38.1	38.2	31.7	32.1	31.6	36.4	36.3	36.7	33.7	33.9	33.6	32.7	33.1	31.3	32.3	32.2	32.8	32.6	32.3	32.4
Time to degree																								
From baccalaureate	9.5	10.0	8.9	12.0	12.0	12.2	9.1	9.5	9.0	12.0	12.0	11.1	10.0	10.3	9.4	9.6	10.0	8.2	9.3	9.3	9.5	9.6	9.6	9.3
From graduate school start	7.8	8.0	7.7	9.3	9.3	10.2	7.7	7.7	7.7	9.3	9.7	7.9	7.9	8.3	7.3	7.7	7.9	7.2	7.7	7.7	7.5	7.7	7.7	7.7

^{* =} value <0.05. D = suppressed to avoid disclosure of confidential information.

NOTES: "U.S. citizen" refers to U.S. citizens and permanent residents; "non-U.S. citizen" refers to non-U.S. citizen temporary visa holders. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a Totals include 3,549 individuals who did not report their citizenship at time of doctorate.

^b Includes Alaska Natives.

^c Does not include Native Hawaiians or Other Pacific Islanders.

d Includes doctorate recipients who did not indicate their race/ethnicity, non-Hispanic doctorate recipients who did not indicate their race, and Native Hawaiian or Other Pacific Islanders.

^e Percentages are based on the number indicating a primary source of financial support during graduate school.

fincludes only respondents who responded to postgraduation status.

⁹ Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents indicating plans for other full-time degree program.

^h Does not include respondents who indicated plans for other full-time degree program.

i Includes doctorate recipients who indicated self-employment.

^j "Other" is mainly composed of elementary and secondary schools.

k Includes only respondents with definite employment plans.

TABLE S-42. Doctorate recipients' financial resources in support of doctoral programs, by broad field of study and sex: 2007

					Phys	ical										
	To	tal	Life scie	ences ^a	scienc	ces ^b	Social sc	iences ^c	Engine	ering	Educ	ation	Huma	nities	Other	fields
Financial resource	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
								Num	ber							
Unduplicated total ^d	23,473	19,649	4,693	5,051	5,245	2,067	2,629	3,707	5,528	1,456	1,864	3,835	2,297	2,251	1,217	1,282
								Perc	ent							
Fellowship, scholarship	49.5	52.8	53.7	57.5	48.4	52.8	60.6	59.5	40.1	49.0	25.9	30.0	71.0	72.6	52.4	52.1
Grant	22.9	26.6	39.5	39.6	20.0	23.9	28.1	30.4	12.6	15.5	9.8	12.3	28.2	30.7	17.6	17.5
Teaching assistantship	57.6	54.0	40.4	40.6	76.7	82.1	72.3	69.4	49.4	49.5	20.0	24.3	80.5	81.9	61.2	61.6
Research assistantship	61.6	49.9	57.6	53.1	79.4	79.1	56.7	56.6	83.9	84.3	16.8	23.3	24.2	27.5	49.4	50.7
Other assistantship	3.0	5.3	1.5	2.1	1.7	2.3	6.2	10.0	1.6	1.4	5.9	6.6	5.7	7.7	4.4	5.2
Traineeship	2.0	3.1	6.5	7.6	0.9	1.7	2.5	3.6	8.0	1.4	0.4	0.3	0.2	0.3	0.6	1.1
Internship, clinical residency	3.4	4.9	0.9	1.0	3.7	3.3	9.1	18.0	5.0	4.6	0.9	1.5	0.3	1.2	1.7	1.4
Loans (from any source)	22.4	30.9	19.9	20.8	12.6	13.7	40.3	48.5	8.6	7.6	40.1	37.8	44.7	41.8	29.4	33.9
Personal savings	27.0	30.2	22.0	21.7	16.6	14.5	38.0	33.7	18.8	14.9	49.3	44.5	40.9	38.3	44.5	39.2
Other personal earnings during graduate school	19.3	28.8	12.3	16.1	9.0	8.2	32.3	35.7	7.7	7.3	47.8	47.7	43.3	43.6	27.0	33.9
Spouse's, partner's, or family's earnings or savings	19.9	30.8	19.2	23.8	11.6	15.4	30.9	40.7	12.2	14.5	25.4	36.2	37.0	42.5	29.0	35.6
Employer reimbursement/assistance	8.1	9.4	5.6	7.5	4.8	2.4	7.1	5.5	6.8	4.5	28.8	23.3	6.0	4.4	11.5	11.4
Foreign (non-U.S.) support	4.4	3.0	3.9	2.4	3.1	2.0	6.8	3.6	4.5	3.6	4.0	2.2	4.5	4.7	7.1	3.6
Other	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.5	0.1	0.1	0.6	0.7	0.4	0.7	0.9	0.4

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: In this table a respondent counts once in each source category from which he or she received support. Because students indicate multiple sources of support, the percentages sum to more than 100%. (Data on the "primary" source of support for doctorate recipients are presented in the body of this report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. The table excludes 52 individuals for whom sex was not reported.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

d The 4,938 doctorate recipients who did not report sources of support are omitted from this total. Percentages are based only on known responses.

TABLE S-43. Distribution of doctorate recipients' financial resources in support of doctoral programs, by sex and broad field of study: 2007 (Percent)

	All fields	Life	Physical	Social				
Financial resource	(number)	sciences ^a	sciences ^b	sciences ^c	Engineering	Education	Humanities	Other fields
Male doctorate recipients								
Unduplicated count ^d	23,473	20.0	22.3	11.2	23.6	7.9	9.8	5.2
Fellowship, scholarship	11,621	21.7	21.8	13.7	19.1	4.2	14.0	5.5
Grant	5,383	34.4	19.5	13.7	13.0	3.4	12.0	4.0
Teaching assistantship	13,515	14.0	29.8	14.1	20.2	2.8	13.7	5.5
Research assistantship	14,466	18.7	28.8	10.3	32.1	2.2	3.8	4.2
Other assistantship	708	9.9	12.6	23.2	12.7	15.5	18.6	7.5
Traineeship	479	63.9	9.8	13.6	8.8	1.5	1.0	1.5
Internship, clinical residency	798	5.3	24.4	29.8	35.0	2.0	0.9	2.6
Loans (from any source)	5,261	17.8	12.6	20.1	9.0	14.2	19.5	6.8
Personal savings	6,342	16.3	13.8	15.7	16.4	14.5	14.8	8.5
Other personal earnings during graduate school	4,533	12.7	10.4	18.8	9.3	19.7	21.9	7.2
Spouse's, partner's, or family's earnings or savings	4,675	19.3	13.0	17.4	14.4	10.1	18.2	7.6
Employer reimbursement/assistance	1,892	13.9	13.3	9.9	19.9	28.3	7.3	7.4
Foreign (non-U.S.) support	1,034	17.6	15.7	17.4	23.9	7.2	10.0	8.3
Other	71	23.9	9.9	11.3	8.5	16.9	14.1	15.5
Female doctorate recipients								
Unduplicated count ^e	19,649	25.7	10.5	18.9	7.4	19.5	11.5	6.5
Fellowship, scholarship	10,369	28.0	10.5	21.3	6.9	11.1	15.8	6.4
Grant	5,234	38.2	9.4	21.6	4.3	9.0	13.2	4.3
Teaching assistantship	10,604	19.4	16.0	24.3	6.8	8.8	17.4	7.5
Research assistantship	9,806	27.3	16.7	21.4	12.5	9.1	6.3	6.6
Other assistantship	1,042	10.1	4.6	35.7	2.0	24.5	16.7	6.4
Traineeship	609	63.2	5.7	22.0	3.4	2.1	1.1	2.3
Internship, clinical residency	953	5.4	7.2	69.9	7.0	5.9	2.7	1.9
Loans (from any source)	6,070	17.3	4.7	29.6	1.8	23.9	15.5	7.2
Personal savings	5,931	18.4	5.1	21.1	3.7	28.8	14.5	8.5
Other personal earnings during graduate school	5,659	14.3	3.0	23.4	1.9	32.3	17.4	7.7
Spouse's, partner's, or family's earnings or savings ^e	6,043	19.9	5.3	25.0	3.5	23.0	15.8	7.6
Employer reimbursement/assistance	1,838	20.7	2.7	11.0	3.5	48.7	5.4	7.9
Foreign (non-U.S.) support	583	20.6	7.2	22.8	9.1	14.4	18.0	7.9
Other	83	14.5	6.0	21.7	2.4	30.1	19.3	6.0

^a Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

NOTES: In this table a recipient counts once in each source category from which he or she received support. Because students indicate multiple sources of support, the sum of the individual sources of support will be greater than the unduplicated total. (Data on the "primary" source of support for doctorate recipients are presented in the body of this report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^b Includes mathematics and computer and information sciences.

^c Includes psychology.

^d The 2,703 male doctorate recipients who did not report sources of support are omitted from this number.

 $^{^{\}mathrm{e}}$ The 2,235 female doctorate recipients who did not report sources of support are omitted from this number.

TABLE S-44. State of doctoral institution of doctorate recipients, by broad field of study and sex: 2007

	Tot	al ^a	Lif scien		Phys scien		Soc scien		Engine	ering	Educa	ition	Huma	nities	Other	fields
State	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States ^e	26,176	21,884	5,158	5,457	5,766	2,254	2,979	4,214	6,131	1,602	2,103	4,340	2,588	2,518	1,451	1,499
Alabama	287	288	75	87	54	19	22	43	64	17	31	93	23	11	18	18
Alaska	21	12	D	D	D	D	D	D	D	D	D	D	D	D	0	0
Arizona	474	414	63	95	101	33	63	73	120	32	51	107	45	48	31	26
Arkansas	85	75	24	33	9	6	D	D	D	D	21	17	D	D	D	D
California	3,240	2,564	566	631	830	328	408	598	868	219	154	366	300	314	114	108
Colorado	454	363	95	96	127	48	54	64	108	28	31	78	30	29	9	20
Connecticut	390	317	114	109	79	32	50	67	51	18	14	23	64	60	18	8
Delaware	135	111	9	11	D	D	19	19	48	17	25	53	D	D	D	D
District of Columbia	260	288	36	67	36	8	49	93	30	11	17	41	43	32	49	36
Florida	1,048	938	175	188	217	109	104	173	271	80	100	221	79	85	102	82
Georgia	741	565	94	114	156	60	59	98	271	61	65	130	44	51	52	51
Hawaii	72	72	15	17	21	6	12	25	D	D	D	D	9	7	D	D
ldaho	76	56	29	16	D	D	D	D	9	0	20	29	D	D	0	0
Illinois	1,334	1,087	195	232	283	94	177	227	305	73	109	250	177	121	88	90
Indiana	752	498	108	106	154	71	61	80	212	43	73	91	91	80	53	27
Iowa	380	276	113	79	71	25	28	24	96	29	33	68	20	33	19	18
Kansas	231	221	61	53	40	14	37	53	25	7	26	60	28	25	14	9
Kentucky	253	185	63	59	46	13	24	36	47	10	14	30	41	13	18	24
Louisiana	311	261	65	74	60	33	45	37	64	20	17	45	36	35	24	17
Maine	20	30	8	14	D	D	D	D	D	D	D	D	D	D	0	0
Maryland	664	601	182	215	136	51	80	106	167	38	25	71	57	84	17	36
Massachusetts	1,512	1,077	302	287	399	140	187	229	347	95	47	108	153	151	77	67
Michigan	958	785	155	158	186	87	102	163	305	83	78	137	84	106	48	51
Minnesota	519	538	112	130	100	31	52	87	97	29	61	141	47	69	50	51
Mississippi	179	207	49	32	18	24	23	25	24	9	24	80	16	9	25	28
Missouri	462	372	114	97	78	33	47	53	76	22	69	110	47	31	31	26
Montana	54	36	D	D	15	7	D	D	6	0	8	12	D	D	D	D
Nebraska	163	159	41	40	34	11	15	25	20	5	28	46	11	16	14	16
Nevada	64	75	8	6	12	10	11	19	D	D	16	29	D	D	D	D
New Hampshire	87	56	32	21	31	13	D	D	10	7	D	D	D	D	D	D
New Jersey	577	419	75	85	152	43	58	87	148	44	23	39	99	86	22	35
New Mexico	161	126	D	D	50	12	9	18	33	6	20	38	14	16	D	D
New York	2,002	1,834	379	422	495	171	293	447	336	106	120	248	277	315	102	125
North Carolina	728	643	188	210	164	83	72	82	156	49	42	112	81	61	25	46
North Dakota	62	72	25	14	D	D	D	D	D	D	12	27	D	D	D	D
Ohio	965	802	196	202	183	75	84	155	261	50	92	190	84	66	65	64
Oklahoma	235	176	57	42	41	16	21	24	54	15	30	50	21	14	11	15
Oregon	211	217	62	81	57	25	30	36	31	6	15	41	D	D	D	D
Pennsylvania	1,252	1,155	216	281	255	115	128	185	312	99	121	240	136	138	84	97
Puerto Rico	53	100	D	D	D	D	18	45	6	0	12	26	5	6	D	D
Rhode Island	124	123	D	D	54	25	17	29	15	6	D	D	19	21	D	D
South Carolina	223	223	52	68	45	16	23	30	65	20	15	64	8	17	15	8
South Dakota	44	42	D	D	D	D	7	8	D	D	19	24	D	D	D	D
Tennessee	390	372	92	99	60	27	45	62	76	26	56	98	36	29	25	31

TABLE S-44. State of doctoral institution of doctorate recipients, by broad field of study and sex: 2007

	Tot	al ^a	Lif scien		Physi scienc		Socia scienc		Enginee	ering	Educa	tion	Human	ities	Other f	ields
State	Male	Female	Male	Female	Male F	emale	Male F	emale	Male F	emale	Male F	emale	Male F	emale	Male F	Female
Texas	1,869	1,415	375	356	400	131	163	247	467	92	178	345	176	134	110	110
Utah	265	166	59	41	75	19	32	29	53	16	23	43	11	5	12	13
Vermont	36	24	21	9	D	D	D	D	D	D	6	6	D	D	D	D
Virginia	631	516	97	112	127	55	76	94	188	41	70	133	40	40	33	41
Washington	430	403	118	117	90	48	59	86	92	37	25	49	28	33	18	33
West Virginia	89	71	22	21	D	D	15	13	D	D	12	23	D	D	D	D
Wisconsin	559	428	121	123	125	54	70	61	108	24	40	69	64	73	31	24
Wyoming	44	30	D	D	7	6	D	D	D	D	7	9	0	0	0	0

D = suppressed to avoid disclosure of confidential information.

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a Totals exclude doctorate recipients who did not report sex (n=52).

^b Includes agricultural sciences/natural resources, biological/biomedical sciences, and health sciences.

^c Includes mathematics and computer and information sciences.

^d Includes psychology.

^e Includes the 50 states, District of Columbia, and Puerto Rico.

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sc	ience																	
			resources	es				ciences	ocean sciences						al relations							E	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
All U.S. Institutions	48,112	10,628	1,320	7,179	2,129	8,029	2,325	1,656	878	1,393	1,777	7,197	511	994	935	3,292	576	889	7,744	267	921	865	2,409	280	679	1,128	1,195
Alabama	575	162	28	99	35	73	19	16	5	14	19	65	1	8	5	48	3	0	81	0	11	7	24	5	12	11	11
AL A&M U.	10	5	3	2	0	1	0	0	0	0	13	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
AL State U.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auburn U.	196	46	24	13	9	26	8	7	0	8	3	22	0	0	2	20	0	0	38	0	6	5	14	3	3	6	1
U. AL Birmingham	157	93	1	70	22	15	2	5	0	2	6	15	0	0	0	12	3	0	15	0	1	2	1	0	4	1	6
U. AL in Huntsville	30	3	0	3	0	12	0	4	2	0	6	0	0	0	0	0	0	0	15	0	1	0	7	2	0	1	4
U. AL, The	159	9	0	5	4	16	9	0	0	4	3	28	1	8	3	16	0	0	12	0	3	0	2	0	4	3	0
U. South AL	18	6	0	6	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska	33	12	4	8	0	9	0	0	8	1	0	2	2	0	0	0	0	0	6	0	1	0	2	0	0	0	3
U. AK	33	12	4	8	0	9	0	0	8	1	0	2	2	0	0	0	0	0	6	0	1	0	2	0	0	0	3
Arizona	889	158	27	101	30	134	30	19	23	15	47	136	29	12	19	38	11	27	153	2	8	20	61	16	14	11	21
AZ State U.	385	32	1	28	30	40	10	12	6	6	6	49	5	2	3	19	4	16	97	1	5	10	42	11	9	8	11
Northern AZ U.	44	9	5	4	0	0	0	0	0	0	0	7	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0
U. AZ	460	117	21	69	27	94	20	7	17	9	41	80	24	10	11	17	7	11	56	1	3	10	19	5	5	3	10
Arkansas																					4		_			-	
AR State U.	160 10	57 1	13	29 0	15 0	15 1	5 0	0	2	2	5 0	15 1	0	0	0	7 0	0	6 1	18 0	0	0	3	6 0	0	3	0	5 0
U. AR	115	34	12	14	8	11	4	1	1	2	3	14	1	1	0	7	0	5	17	0	1	3	5	0	3	0	5
U. AR Little Rock	14	1	0	1	0	3	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
U. AR for Medical Sciences	21	21	0	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	5,806	1,198	89	919	190	1,159	287	268	141	198	265	1,006	80	140	162	418	82	124	1,087	38	96	111	413	11	111	154	153
Alliant International U./Alameda	13	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./Alhambra	18	0	0	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./Fresno	17	0	0	0	0	0	0	0	0	0	0	17	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0
Alliant International U./San Diego	45	1	1	0	0	0	0	0	0	0	0	35	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0
Biola U.	15	0	0	0	0	0	0	0	0	0	0	7	1	0	0	6	0	0	0	0	0	0	0	0	0	0	0
CA Institute Integral Studies	23	0	0	0	0	1	0	0	0	0	1	8	1	0	0	7	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	seol				sciences	ocean sciences						nal relations			-				En	gineerir	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
CA Institute of Technology	206	44	3	41	0	84	23	4	10	6	41	7	0	2	3	0	0	2	70	6	9	3	23	0	12	12	5
Claremont Graduate U.	107	4	1	3	0	7	0	4	0	2	1	42	1	11	16	12	0	2	1	1	0	0	0	0	0	0	0
Claremont School of Theology	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fielding Graduate Institute	118	1	0	1	0	0	0	0	0	0	0	67	0	0	0	61	0	6	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary	50	0	0	0	0	0	0	0	0	0	0	21	1	0	0	16	0	4	0	0	0	0	0	0	0	0	0
Graduate Theological Union	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
La Sierra U.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	36	20	0	14	6	0	0	0	0	0	0	14	0	0	0	13	0	1	0	0	0	0	0	0	0	0	0
Naval Postgraduate School	12	0	0	0	0	5	0	3	1	0	1	0	0	0	0	0	0	0	7	2	0	0	5	0	0	0	0
Pacific Graduate School of Psychology	35	0	0	0	0	0	0	0	0	0	0	35	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0
Pardee RAND Graduate School	19	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
Pepperdine U.	58	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Diego State U.	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara U.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	5	0	0	1	0
Saybrook Graduate School	34	3	0	0	3	0	0	0	0	0	0	28	0	0	0	25	0	3	0	0	0	0	0	0	0	0	0
Scripps Research Institute, The	27	15	0	15	0	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stanford U.	684	81	1	78	2	175	36	32	27	28	52	88	11	29	25	12	10	1	225	18	20	25	79	4	19	34	26
U. CA, Berkeley	896	186	33	120	33	207	70	39	16	40	42	138	18	24	21	25	22	28	185	0	27	31	43	5	16	36	27
U. CA, Davis	475	190	31	147	12	103	28	21	8	19	27	48	3	11	5	17	2	10	81	2	6	17	27	1	4	8	16
U. CA, Irvine	298	58	2	52	4	86	30	34	4	11	7	35	3	5	6	4	7	10	58	0	5	12	23	0	5	8	5
U. CA, Los Angeles	719	168	0	120	48	114	24	25	10	32	23	113	16	22	32	24	11	8	127	0	14	5	55	0	15	24	14
U. CA, Riverside	177	45	7	34	4	51	11	19	3	11	7	26	2	4	3	11	5	1	21	0	2	1	14	0	0	4	0
U. CA, San Diego	416	104	0	95	9	103	16	21	32	15	19	68	5	11	19	25	5	3	103	4	0	5	45	0	5	12	32
U. CA, San Francisco	131	108	0	78	30	4	4	0	0	0	0	7	2	0	0	0	5	0	11	0	0	0	0	0	0	0	11
U. CA, Santa Barbara	310	28	3	25	0	72	11	20	10	5	26	54	6	8	8	18	5	9	75	0	11	0	26	0	27	11	0
U. CA, Santa Cruz	127	29	4	24	1	48	9	10	13	6	10	26	4	6	3	5	3	5	10	0	0	0	9	0	0	0	1
U. San Diego	38	14	0	0	14	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. San Francisco	41	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. Southern CA	584	90	3	68	19	84	11	36	7	22	8	69	5	7	21	18	7	11	107	5	2	12	59	1	8	4	16
U. the Pacific	29	5	0	4	1	2	2	0	0	0	0	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	ces				sciences	ocean sciences						nal relations			_				Er	gineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Colorado	817	191	29	130	32	175	46	24	39	25	41	118	4	22	22	44	7	19	136	7	22	29	37	0	10	16	15
CO School of Mines	64	5	3	2	0	28	2	3	15	2	6	1	0	1	0	0	0	0	29	0	7	1	0	0	10	1	10
CO State U.	211	76	17	50	9	50	16	6	10	9	9	28	0	7	3	13	4	1	29	0	1	10	11	0	0	5	2
U. CO	310	40	9	25	6	90	26	14	14	10	26	44	4	14	7	8	3	8	71	7	14	16	24	0	0	9	1
U. CO Health Sciences Ctr.	61	59	0	50	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
U. CO-Colorado Springs	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0	1
U. CO-Denver	34	1	0	0	1	3	0	1	0	2	0		0	0	2	1	0	7	2	0	0	2	0	0	0	0	0
U. Denver			0		1	3	2	0	0	4	-	10	-				0	1	_	•	0	0	0	0	-	•	0
U. Northern CO	82 52	1	0	1 2	0 7	ა 1	0	-	0	1	0	29 6	0	0	10 0	18	0	2	1	0	0	0	0	-	0	1	
o. Northern oo	52	9	U	2	1	1	U	0	U	1	U	б	U	U	U	4	U	2	0	0	U	U	U	0	U	U	0
Connecticut	707	223	22	176	25	111	32	12	11	27	29	117	17	22	24	45	6	3	69	0	13	9	13	0	10	11	13
U. CT	338	102	16	71	15	49	15	4	6	15	9	60	10	7	6	32	4	1	51	0	10	8	8	0	10	10	5
U. Hartford	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wesleyan U.	14	10	0	10	0	3	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yale U.	354	111	6	95	10	59	16	8	5	10	20	57	7	15	18	13	2	2	18	0	3	1	5	0	0	1	8
Delaware	0.46	20	4	4.4	5	07	6	8	5	2	6	20	0	3	4	16	6	9	C.F.	0	22	5	04	0	7	7	2
U. DE	246	20	1	14	-	27	6	-	•	2	6	38	•	3	4	16	6	•	65 65	0	23	5 5	21	0	7	7	2
Wilmington C.	193	20	1	14	5 0	27 0	0	8	5 0	0	0	35 3	0		4 0	13 3	0	9	65 0	0	23	0	21 0	0	0	0	0
Willington O.	53	0	U	0	U	U	U	U	U	U	U	3	U	0	U	3	U	U	U	U	U	U	U	0	U	U	U
District of Columbia	550	104	0	88	16	44	17	10	4	7	6	142	10	19	44	44	8	17	42	0	0	5	7	0	0	6	24
American U.	46	2	0	2	0	3	2	0	0	1	0	26	4	5	5	7	2	3	0	0	0	0	0	0	0	0	0
Catholic U. America	75	13	0	5	8	1	0	0	0	0	1	20	5	0	5	9	0	1	3	0	0	0	1	0	0	1	1
Gallaudet U.	8	0	0	0	0	0	0	0	0	0	0	4	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
George Washington U.	222	25	0	21	4	22	7	10	0	4	1	36	1	5	7	13	0	10	37	0	0	5	6	0	0	3	23
Georgetown U.	99	41	0	40	1	4	4	0	0	0	0	30	0	3	25	1	0	1	0	0	0	0	0	0	0	0	0
Howard U.	100	23	0	20	3	14	4	0	4	2	4	26	0	6	1	11	6	2	2	0	0	0	0	0	0	2	0
Florida	1,989	363	62	213	88	326	65	80	53	55	73	277	19	16	33	157	22	30	352	10	28	55	115	35	28	40	41
Barry U.	54	0	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0
FL A&M U.	28	8	2	3	3	6	0	0	1	0	5	0	0	0	0	0	0	0	4	0	1	0	1	2	0	0	0
FL Atlantic U.	73	13	1	4	8	15	4	5	2	3	1	8	1	0	0	6	0	1	8	0	0	0	6	0	0	1	1
FL Institute of Technology	20	4	0	4	0	12	2	1	3	3	3	2	0	0	0	2	0	0	2	0	0	0	2	0	0	0	0
FL International U.	100	9	1	8	0	17	6	6	4	0	1	16	1	1	4	8	2	0	31	0	0	8	16	2	1	2	2
	100	9	- 1	U	U	17	U	U	4	U	- 1	10	- 1	- 1	4	U	_	U	31	U	U	U	10	4	- 1	_	_

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TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
	_		al resources	seo				sciences	and ocean sciences						nal relations			_				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Lynn U.	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Southeastern U.	119	2	1	0	1	39	0	37	2	0	0	35	0	0	0	31	0	4	0	0	0	0	0	0	0	0	0
U. Central FL	213	7	2	3	2	41	3	13	0	5	20	30	0	0	7	18	1	4	61	0	0	7	22	19	5	3	5
U. FL	647	204	53	104	47	80	30	8	2	17	23	68	10	7	10	30	9	2	180	10	24	18	52	5	20	25	26
U. Miami	136	37	1	30	6	22	3	0	11	2	6	25	0	3	5	15	2	0	16	0	0	3	9	0	0	1	3
U. South FL	213	43	0	26	17	39	8	3	15	10	3	32	3	2	0	23	0	4	27	0	2	15	3	1	1	2	3
U. West FL	25	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Coordia														-			_										
Georgia	1,311	212	44	135	33	216	81	55	24	21	35	157	11	32	16	67	9	22	332	39	28	23	116	14	21	40	51
Clark Atlanta U.	42	1	0	1	0	5	3	2	0	0	0	8	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0
Emory U.	177	52	0	44	8	30	22	1	0	7	0	24	6	5	1	5	5	2	0	0	0	0	0	0	0	0	0
GA Courte of Technology	456	6	1	5	0	101	33	28	16	6	18	10	0	0	0	3	0	7	326	39	28	23	116	14	21	40	45
GA Southern U.	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GA State U.	173	21	0	18	3	31	7	14	1	0	9	47	0	23	2	18	3	1	0	0	0	0	0	0	0	0	0
Medical C. GA	17	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. GA	383	115	43	50	22	49	16	10	7	8	8	68	5	4	10	41	1	7	6	0	0	0	0	0	0	0	6
Hawaii	144	32	8	17	7	27	1	9	7	3	7	37	2	3	9	13	8	2	8	0	0	2	4	0	0	2	0
U. HI Manoa	144	32	8	17	7	27	1	9	7	3	7	37	2	3	9	13	8	2	8	0	0	2	4	0	0	2	0
ldaho	132	45	20	22	3	17	5	4	3	1	4	9	0	0	3	5	0	1	9	0	0	0	4	0	2	1	2
Boise State U.	5	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID State U.	28	9	0	7	2	2	0	0	0	1	1	5	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0
U. ID	99	36	20	15	1	13	5	4	1	0	3	4	0	0	2	1	0	1	9	0	0	0	4	0	2	1	2
Illinois	0.400				70	070	407	70	00	00	00	40.4	07	07	40	400	20	07	070	_	0.5	40	404	•	00	50	
Benedictine U.	2,422	427	37	318	72	378	107	76	22	90	83	404	37	67	48	186	39	27	378	5	35	48	104	9	62	59	56
Chicago Theological Seminary	16	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
DePaul U.	5 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	0	0	U	U	3	U	3	U	U	0	15	U	0	U	15	U	U	0	U	U	0	0	U	0	0	0
Rosalind Franklin U. of Medicine and Science	20	6	0	6	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
Garrett Evangelical Theological Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IL Institute of Technology	73	5	0	5	0	8	0	5	0	1	2	12	0	0	0	12	0	0	35	0	11	2	14	0	2	2	4
IL State U.	49	5	0	5	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	seol				sciences	and ocean sciences						nal relations			_				Er	igineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Institute for Clinical Social	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	(
Work Loyola U. Chicago	150		0	10			1	0	0	0	0	27	0	0	3	24	10	0	1	0	0	0	0	0	0	0	,
Lutheran School of Theology Chicago	159 2	30 0	0	18 0	12 0	1	0	0	0	0	0	37 0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	(
National-Louis U.	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Northern IL U.	106	4	0	4	0	13	3	0	5	4	1	20	0	2	4	14	0	0	0	0	0	0	0	0	0	0	(
Northwestern U.	381	70	0	69	1	65	37	5	3	12	8	60	4	15	18	13	9	1	97	0	10	7	15	8	29	17	11
Roosevelt U.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. (
Rush U.	15	15	0	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Southern IL U.	146	22	4	13	5	10	6	0	1	3	0	38	1	3	2	27	3	2	12	0	0	2	5	0	0	0	į
U. Chicago, The	357	68	4	61	3	74	12	6	5	26	25	92	25	27	8	15	10	7	0	0	0	0	0	0	0	0	(
U. IL-Chicago	284	101	0	65	36	52	12	15	1	21	3	30	2	6	1	13	2	6	45	0	2	2	12	0	3	8	18
U. IL-Urbana-Champaign	693	101	29	62	10	152	36	42	7	23	44	78	5	14	12	32	5	10	188	5	12	35	58	1	28	32	17
Indiana	1,252	214	45	129	40	225	62	46	21	55	41	141	11	17	19	67	14	13	255	17	24	40	86	14	6	45	23
Ball State U.	47	2	0	0	2	1	0	0	0	1	0	13	0	0	0	13	0	0	0	0	0	0	0	0	0	0	(
IN State U.	51	4	0	4	0	1	0	1	0	0	0	11	0	0	0	9	0	2	1	0	0	0	1	0	0	0	(
IN U.	384	68	4	47	17	63	8	22	4	19	10	48	10	5	11	7	6	9	0	0	0	0	0	0	0	0	
Purdue U.	609	116	40	55	21	121	47	16	13	29	16	46	10	8	6	23	6	2	208	12	17	36	62	14	6	41	2
U. Notre Dame	161	24	1	23	0	39	7	7	4	6	15	23	0	4	2	15	2	0	46	5	7	4	23	0	0	4	2
lowa	658	192	37	111	44	97	44	15	3	28	7	52	3	9	6	21	6	7	126	3	13	22	30	8	13	24	13
Drake U.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IA State U.	296	90	37	46	7	52	27	10	1	10	4	19	1	5	0	8	4	1	77	3	9	9	22	6	13	11	4
Maharishi U. Management	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
St. Ambrose U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
U. IA	342	101	0	64	37	45	17	5	2	18	3	33	2	4	6	13	2	6	49	0	4	13	8	2	0	13	,
U. Northern IA	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Kansas	452	114	31	48	35	54	29	3	5	6	11	90	3	7	7	58	6	9	32	4	6	5	4	4	1	4	4
KS State U.	156	55	31	23	1	22	9	1	0	4	8	24	0	2	0	14	6	2	13	0	2	3	0	1	1	2	
U. KS	275	55	0	25	30	32	20	2	5	2	3	58	3	5	7	36	0	7	14	3	4	2	4	0	0	1	
Wichita State U.	21	4	0	0	4	0	0	0	0	0	0	8	0	0	0	8	0	0	5	1	0	0	0	3	0	1	

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	ces				sciences	ocean sciences						nal relations			_				En	gineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Kentucky	439	123	17	72	34	59	22	19	1	12	5	60	1	3	4	38	3	11	57	0	9	7	16	3	3	13	6
Asbury Theological Seminary	7	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Southern Baptist Theological Seminary, The	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. KY	279	92	16	45	31	39	17	10	1	7	4	43	1	3	4	26	3	6	35	0	8	5	7	0	3	7	5
U. Louisville	128	31	1	27	3	20	5	9	0	5	1	15	0	0	0	12	0	3	22	0	1	2	9	3	0	6	1
Louisiana Grambling State U.	572 2	139 0	23	63 0	53 0	93 0	33 0	20	9	20 0	11 0	82 0	3	15 0	7 0	34 0	8	15 0	84 0	0	11 0	17 0	17 0	1	2	17 0	19 0
LA State U. and A&M C.	274	50	21	16	13	54	28	5	5	10	6	35	0	5	4	11	6	9	37	0	7	11	7	1	1	8	2
LA State U. Health Sciences Ctr. New Orleans	11	10	0	7	3	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
LA State U. Shreveport	11	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	25	1	0	1	0	4	0	2	0	2	0	2	0	0	0	2	0	0	17	0	1	1	1	0	0	2	12
New Orleans Baptist Theological Seminary	11	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Southern U. and A&M C.	8	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Tulane U.	125	48	0	18	30	17	3	6	3	3	2	17	3	4	3	6	1	0	15	0	2	3	3	0	0	5	2
U. LA Lafayette	42	7	1	3	3	12	0	7	0	5	0	2	0	0	0	2	0	0	5	0	0	0	5	0	0	0	0
U. LA Monroe	17	10	0	6	4	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
U. New Orleans	46	2	1	1	0	6	2	0	1	0	3	14	0	6	0	4	1	3	10	0	1	2	1	0	1	2	3
Maine	50	22	9	12	1	11	2	2	5	0	2	3	0	0	0	3	0	0	3	0	2	0	0	0	0	0	1
U. ME	50	22	9	12	1	11	2	2	5	0	2	3	0	0	0	3	0	0	3	0	2	0	0	0	0	0	1
Maryland	1,265	397	23	247	127	187	30	58	13	33	53	186	1	31	32	60	12	50	205	9	13	23	80	0	13	37	30
Baltimore Hebrew U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bowie State U.	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johns Hopkins U.	384	206	1	117	88	43	11	11	1	7	13	36	0	8	14	8	2	4	49	0	4	7	10	0	3	10	15
Loyola C. in MD	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Morgan State U.	36	2	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	4	0	0	0	0
Towson U.	4	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. the Health Sciences	24	22	0	21	1	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	seo				sciences	ocean sciences						nal relations			_				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oα	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. MD	645	90	20	61	9	122	14	36	10	25	37	114	1	23	17	36	10	27	142	9	8	15	63	0	10	22	15
U. MD Baltimore County	64	7	0	6	1	19	3	10	2	1	3	26	0	0	1	9	0	16	9	0	1	0	3	0	0	5	0
U. MD Eastern Shore	9	1	1	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
U. MD School of Medicine	75	68	1	42	25	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Massachusetts	2,594	589	23	456	110	539	171	110	50	51	157	417	30	77	71	133	34	72	443	24	64	19	134	9	44	65	84
American International C.	2,594	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Boston C.	147	15	0	12	3	24	19	0	0	0	5	21	0	4	2	13	2	0	0	0	0	0	0	0	0	0	0
Boston U.	372	124	0	109	15	54	13	8	7	9	17	58	5	12	9	21	9	2	40	1	0	0	12	6	1	7	13
Brandeis U.	92	22	0	18	4	22	10	2	0	5	5	28	1	0	0	3	5	19	0	0	0	0	0	0	0	0	0
Clark U.	25	2	0	2	0	2	1	0	0	0	1	20	0	2	0	11	0	7	0	0	0	0	0	0	0	0	0
Harvard U.	690	218	2	160	56	128	37	13	14	13	51	129	15	27	29	32	10	16	15	0	0	1	2	0	1	3	8
MA C. Pharmacy & Health Sciences	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA Institute of Technology	601	58	1	49	8	168	36	45	23	17	47	57	1	26	12	5	0	13	272	22	44	5	68	1	38	37	57
New England Conservatory of Music	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northeastern U.	83	6	0	3	3	25	4	5	1	3	12	13	0	0	3	3	4	3	38	0	2	5	19	1	2	7	2
Simmons C.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smith C.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springfield C.	5	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suffolk U.	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
Tufts U.	99	46	0	45	1	15	7	3	0	1	4	18	0	0	10	7	0	1	8	0	3	1	3	0	0	1	0
U. MA Amherst	294	55	20	25	10	76	33	25	3	2	13	48	8	6	6	19	4	5	35	0	7	4	15	0	2	4	3
U. MA Dartmouth	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0
U. MA Harbor campus	35	3	0	0	3	2	0	1	1	0	0	16	0	0	0	10	0	6	0	0	0	0	0	0	0	0	0
U. MA Lowell	66	8	0	3	5	13	7	4	1	0	1	0	0	0	0	0	0	0	16	0	4	3	7	0	0	1	1
U. MA Worcester	31	31	0	30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute	26	0	0	0	0	8	2	4	0	1	1	0	0	0	0	0	0	0	17	1	4	0	6	1	0	5	0
Michigan	1.744	313	44	188	81	273	99	44	22	46	62	265	26	32	32	126	24	25	388	16	49	17	98	28	18	96	66
Andrews U.	18	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Calvin Theological Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Central MI U.	33	1	0	1	0	0	0	0	0	0	0	23	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0

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TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	sec				sciences	ean sciences						ıal relations			_				Er	ıgineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Eastern MI U.	20	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
MI State U.	476	111	35	59	17	80	34	16	0	9	21	63	8	10	10	18	6	11	51	0	10	5	20	1	5	9	1
MI Technological U.	65	5	4	1	0	16	5	2	2	5	2	0	0	0	0	0	0	0	39	1	6	3	7	1	2	17	2
Oakland U.	26	1	0	1	0	3	0	0	0	1	2	0	0	0	0	0	0	0	16	0	0	0	2	0	0	7	7
U. Detroit Mercy	9	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	10	0	0	0	0	0	0	1	0
U. MI	783		5		•	•	39	-	•	26	-		•	17	-	45	9	9	228	•	-	5	58	-	8	57	
Wayne State U.		141	-	85	51	127		14	15		33	112	16		16			-		15	23	-		16	-		46
Western MI U.	207	46	0	35	11	33	18	10	0	2	3	24	2	1	4	14	3	0	44	0	9	4	9	7	3	5	7
Western Wil O.	106	8	0	6	2	14	3	2	5	3	1	29	0	4	2	12	6	5	9	0	1	0	2	3	0	0	3
Minnesota	1,057	242	30	132	80	131	41	24	14	29	23	139	3	15	7	80	5	29	126	7	23	15	32	2	13	22	12
Hamline U.	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luther Seminary	11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Mayo Graduate School	26	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
St. Mary's U. MN	22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
U. MN	778	201	29	112	60	128	41	22	14	29	22	82	3	15	7	34	5	18	120	7	23	15	32	2	13	22	6
U. St. Thomas	21	0	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0
Walden U.	185	20	0	0	20	3	0	2	0	0	1	50	0	0	0	43	0	7	0	0	0	0	0	0	0	0	0
	105	20	U	U	20	3	U	2	U	U	'	30	U	U	U	43	U	,	U	U	U	U	U	U	U	U	U
Mississippi	386	81	14	37	30	42	17	6	1	15	3	48	0	3	5	28	3	9	33	2	4	3	14	1	0	2	7
Delta State U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackson State U.	32	0	0	0	0	4	4	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MS State U.	107	26	11	11	4	9	3	3	0	3	0	6	0	0	0	3	3	0	16	1	2	1	7	1	0	1	3
U. MS	114	18	1	3	14	18	5	1	0	10	2	20	0	2	3	15	0	0	15	1	0	2	7	0	0	1	4
U. MS Medical Ctr.	21	21	0	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. Southern MS	111	16	2	9	5	11	5	2	1	2	1	20	0	0	2	10	0	8	2	0	2	0	0	0	0	0	0
Missauri													_				_			_					_		
Missouri	835	211	23	161	27	111	41	20	10	22	18	100	7	17	16	45	6	9	98	2	11	10	25	1	5	13	31
Concordia Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MO U. of Science and Technology	50	2	0	2	0	14	7	2	0	3	2	0	0	0	0	0	0	0	34	1	2	5	9	0	4	6	7
St. Louis U.	135	23	0	13	10	3	0	0	2	1	0	14	1	0	0	12	0	1	0	0	0	0	0	0	0	0	0
U. MO-Columbia	285	63	22	37	4	28	12	5	1	8	2	38	3	7	6	14	6	2	33	0	6	2	7	1	0	5	12
U. MO-Kansas City	70	15	1	7	7	6	1	3	0	0	2	13	0	4	0	8	0	1	0	0	0	0	0	0	0	0	0
U. MO-St. Louis	51	15	0	11	4	6	4	0	0	2	0	12	0	0	1	6	0	5	0	0	0	0	0	0	0	0	0
5. M5 5t. L00l0	51	10	U	1.1	4	O	4	U	U	2	U	12	U	U	I	Ö	U	Э	U	U	U	U	U	U	U	U	U

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

										ence	, 01 Ota																
			resources	es				ciences	an sciences						al relations							En	ıgineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Washington U.	243	93	0	91	2	54	17	10	7	8	12	23	3	6	9	5	0	0	31	1	3	3	9	0	1	2	12
Montana	90	29	7	21	1	22	11	0	4	5	2	10	1	0	0	8	0	1	6	0	2	0	3	1	0	0	0
MT State U.	90 41	29 14	2	11	1	11	4	0	2	3	2	0	0	0	0	0	0	0	6	0	2	0	3	1	0	0	0
U. MT	49	15	5	10	0	11	7	0	2	2	0	10	1	0	0	8	0	1	0	0	0	0	0	0	0	0	0
									_	2	-		'		U		U	·	·	U	U		U	ŭ	U	-	
Nebraska	322	81	17	48	16	45	13	20	3	6	3	40	0	3	6	22	4	5	25	0	0	2	5	2	7	6	3
Creighton U.	6	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE Medical Ctr.	36	36	0	25	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. NE-Lincoln	269	39	17	17	5	43	13	18	3	6	3	39	0	3	6	22	4	4	25	0	0	2	5	2	7	6	3
U. NE-Omaha	11	0	0	0	0	2	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Nevada	139	14	2	12	0	22	7	0	8	0	7	30	0	0	1	28	1	0	15	0	0	6	1	0	2	5	1
U. NV, Las Vegas	65	4	1	3	0	2	0	0	1	0	1	9	0	0	0	8	1	0	5	0	0	4	0	0	0	1	0
U. NV, Reno	74	10	1	9	0	20	7	0	7	0	6	21	0	0	1	20	0	0	10	0	0	2	1	0	2	4	1
New Hampshire	143	53	10	40	3	44	10	5	8	10	11	13	0	2	0	8	0	3	17	0	0	4	4	1	1	2	5
Antioch New England Graduate School	5	5	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dartmouth C.	73	30	0	28	2	29	8	5	4	7	5	3	0	0	0	3	0	0	11	0	0	0	4	1	1	1	4
Southern NH U.	6	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
U. NH	59	18	6	12	0	15	2	0	4	3	6	7	0	2	0	5	0	0	6	0	0	4	0	0	0	1	1
New Jersey	997	160	22	121	17	195	43	45	15	43	49	145	9	24	27	58	13	14	192	10	25	20	65	7	19	23	23
Drew U.	29	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U.	14	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
Montclair State U.	8	4	0	0	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ Institute Technology	50	1	1	0	0	13	1	4	0	4	4	1	0	0	0	0	0	1	35	0	5	4	13	0	2	7	4
Princeton Theological Seminary	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Princeton U.	332	35	0	35	0	90	23	16	4	19	28	55	1	22	13	9	10	0	68	8	11	6	31	0	4	4	4
Rutgers U.	361	71	20	41	10	69	13	18	8	16	14	42	8	2	9	16	2	5	67	2	7	8	14	7	13	9	7
Rutgers State UNewark	57	9	0	7	2	8	3	2	2	1	0	19	0	0	5	6	0	8	0	0	0	0	0	0	0	0	0
Seton Hall U.	53	0	0	0	0	2	2	0	0	0	0	12	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

									Sci	ence																	
	_		al resources	ces				sciences	ean sciences						nal relations			_				Er	igineerii	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Stevens Institute of	39	0	0	0	0	12	1	5	1	2	3	0	0	0	0	0	0	0	22	0	2	2	7	0	0	3	8
Technology U. Medicine & Dentistry of NJ			4		4		0		0		0			-		4				·	0	_	•				
New Mexico	41	40	1	38	1	0	0	0	0	0	·	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
NM Institute of Mining &	287	59	10	45	4	62	17	10	4	7	24	27	8	0	4	14	0	1	39	0	1	4	18	0	3	6	1
Technology	8	0	0	0	0	5	1	1	1	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0
NM State U.	97	17	8	9	0	21	3	2	0	2	14	9	0	0	0	9	0	0	14	0	4	1	6	0	0	3	0
U. NM	182	42	2	36	4	36	13	7	3	5	8	18	8	0	4	5	0	1	22	0	3	3	12	0	0	3	1
New York	3,837	801	62	623	116	667	172	139	50	119	187	740	74	111	99	324	68	64	442	4	65	43	138	11	47	64	70
Adelphi U.	26	0	0	0	0	0	0	0	0	0	0	21	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0
Albany Medical C.	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alfred U.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	0	0
Clarkson U.	22	1	0	1	0	6	5	0	0	1	0	0	0	0	0	0	0	0	15	0	8	2	0	0	0	3	2
Columbia U.	466	103	1	76	26	91	20	17	15	13	26	63	11	13	18	6	8	7	59	0	5	9	17	0	3	5	20
Cornell U.	485	143	49	90	4	124	19	18	4	31	52	68	4	29	13	5	7	10	85	3	17	10	27	0	7	12	9
Cornell U. Weill Med. College	39	38	0	38	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fordham U.	110	2	0	2	0	0	0	0	0	0	0	41	0	7	4	27	3	0	0	0	0	0	0	0	0	0	0
Graduate School & U. Ctr., CUNY	305	22	0	19	3	49	17	7	5	10	10	112	15	8	11	55	14	9	18	0	3	6	8	0	0	1	0
Hofstra U.	29	1	1	0	0	0	0	0	0	0	0	13	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0
Jewish Theological Seminary of America	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juilliard School, The	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Island UBrooklyn campus	11	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Long Island UC. W. Post campus	5	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	23	22	0	22	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New School, The	53	0	0	0	0	0	0	0	0	0	0	38	0	8	9	11	8	2	0	0	0	0	0	0	0	0	0
NY Medical C.	9	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY U.	337	58	0	42	16	43	11	11	1	14	6	59	8	15	8	19	9	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

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		resources	ses

 | | ciences | ean sciences | | | |
 | | al relations | | | _
 | | | | En | ıgineeriı
 | ng | | | |
| All
fields | Life sciences | Agricultural sciences/natura | Biological/biomedical sciend | Health sciences | Physical sciences

 | Chemistry | Computer and information s | Earth, atmospheric, and oce | Mathematics | Physics and astronomy | Social sciences | Anthropology
 | Economics | Political science/ internation | Psychology | Sociology | Other social sciences
 | Engineering | Aerospace/aeronautical | Chemical and related | Civil and related | Electrical and related
 | Industrial | Materials/metallurgical | Mechanical and related | Other |
| 13 | 0 | 0 | 0 | 0 | 7

 | 2 | 4 | 0 | 1 | 0 | 0 | 0
 | 0 | 0 | 0 | | 0
 | 6 | 0 | 1 | 1 | 3
 | 0 | 0 | 1 | 0 |
| 163 | 8 | 0 | 8 | 0 | 45

 | 10 | 18 | 0 | 7 | 10 | 7 | 1
 | 4 | 0 | 0 | 0 | 2
 | 91 | 0 | 10 | 3 | 33
 | 3 | 10 | 18 | 14 |
| 8 | 0 | 0 | 0 | 0 | 3

 | 0 | 1 | 0 | 0 | 2 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 5 | 0 | 0 | 0 | 2
 | 0 | 0 | 0 | 3 |
| 28 | 28 | 0 | 27 | 1 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 109 | 8 | 0 | 3 | 5 | 21

 | 10 | 7 | 2 | 2 | 0 | 27 | 8
 | 4 | 4 | 7 | 4 | 0
 | 12 | 0 | 0 | 0 | 3
 | 1 | 1 | 3 | 4 |
| 22 | 14 | 9 | 5 | 0 | 6

 | 5 | 0 | 1 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 2 | 0 | 2 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 9 | 9 | 0 | 9 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 1 | 1 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 296 | 55 | 0 | 54 | 1 | 109

 | 26 | 19 | 17 | 17 | 30 | 35 | 6
 | 7 | 5 | 12 | 4 | 1
 | 33 | 0 | 1 | 0 | 8
 | 0 | 10 | 5 | 9 |
| 157 | 17 | 1 | 11 | 5 | 23

 | 2 | 4 | 1 | 3 | 13 | 49 | 4
 | 0 | 5 | 20 | 5 | 15
 | 6 | 0 | 0 | 0 | 0
 | 0 | 6 | 0 | 0 |
| 336 | 85 | 0 | 54 | 31 | 55

 | 24 | 13 | 2 | 8 | 8 | 60 | 8
 | 2 | 9 | 24 | 5 | 12
 | 50 | 0 | 6 | 10 | 12
 | 7 | 0 | 12 | 3 |
| 18 | 18 | 0 | 18 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 60 | 10 | 0 | 8 | 2 | 0

 | 0 | 0 | 0 | 0 | 0 | 15 | 0
 | 0 | 0 | 15 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 149 | 10 | 1 | 5 | 4 | 32

 | 7 | 10 | 1 | 5 | 9 | 38 | 7
 | 6 | 5 | 15 | 0 | 5
 | 22 | 1 | 1 | 2 | 11
 | 0 | 0 | 2 | 5 |
| 198 | 16 | 0 | 5 | 11 | 0

 | 0 | 0 | 0 | 0 | 0 | 35 | 2
 | 0 | 5 | 27 | 1 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 239 | 60 | 0 | 54 | 6 | 47

 | 13 | 6 | 1 | 6 | 21 | 25 | 0
 | 8 | 3 | 13 | 0 | 1
 | 31 | 0 | 11 | 0 | 14
 | 0 | 3 | 2 | 1 |
| 82 | 53 | 0 | 53 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 23 | 0
 | 0 | 0 | 23 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 1,373 | 399 | 54 | 274 | 71 | 247

 | 78 | 45 | 26 | 59 | 39 | 155 | 7
 | 26 | 19 | 70 | 20 | 13
 | 205 | 2 | 16 | 23 | 72
 | 5 | 20 | 20 | 47 |
| , | | | | | 0

 | 0 | | | | 0 | 0 | 0
 | 0 | 0 | | |
 | | _ | | | 0
 | 0 | | 0 | 0 |
| | | | | 1 | 46

 | 15 | 8 | | | 9 | 40 |
 | 11 | 9 | 14 | | 1
 | | | | 3 | 17
 | 0 | 3 | 2 | 17 |
| 36 | 13 | 0 | | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 3 | 0 | 0 | 0 | 1
 | 1 | 0 | 1 | 0 |
| 406 | 95 | 35 | 58 | 2 | 99

 | 20 | 14 | 13 | 38 | 14 | 30 | 0
 | 7 | 1 | 15 | 7 | 0
 | 133 | 2 | 16 | 15 | 50
 | 4 | 15 | 14 | 17 |
| 11 | 0 | 0 | 0 | 0 | 0

 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 |
| 464
50 | 163
4 | 16
0 | 86
3 | 61
1 | 78
14

 | 37
0 | 15
8 | 7
0 | 9 | 10
2 | 70
2 | 5
0
 | 8 | 9 | 28
1 | 10
0 | 10
1
 | 19
7 | 0 | 0 | 4 | 1
 | 0 | 2 | 0 | 12
0 |
| | fields 13 163 8 28 109 22 9 2 296 157 336 18 60 149 198 3 239 82 1,373 6 288 36 3 406 11 464 | fields | fields ♣ ♣ ♣ 13 0 0 163 8 0 8 0 0 28 28 0 109 8 0 22 14 9 9 9 0 2 2 0 296 55 0 157 17 1 336 85 0 18 18 0 60 10 0 149 10 1 198 16 0 3 0 0 82 53 0 1,373 399 54 6 0 0 288 94 3 36 13 0 406 95 35 11 0 0 464 163 16 | 13 0 0 0 163 8 0 8 8 0 0 0 28 28 0 27 109 8 0 3 22 14 9 5 9 9 0 9 2 2 0 1 296 55 0 54 157 17 1 11 336 85 0 54 18 18 0 18 60 10 0 8 149 10 1 5 198 16 0 5 3 0 0 0 239 60 0 54 82 53 0 53 1,373 399 54 274 6 0 0 0 288 94 3 90 36 13 0 13 3 0 0 | 13 0 0 0 0 163 8 0 8 0 8 0 0 0 0 28 28 0 27 1 109 8 0 3 5 22 14 9 5 0 9 9 0 9 0 2 2 0 1 1 2 26 55 0 54 1 11 5 336 85 0 54 31 18 18 0 18 0 60 10 0 8 2 2 11 3 0 0 0 0 2149 10 1 5 4 4 198 16 0 5 11 3 0 <td>13 0 0 0 0 7 163 8 0 8 0 45 8 0 0 0 0 3 28 28 0 27 1 0 109 8 0 3 5 21 22 14 9 5 0 6 9 9 0 9 0 0 2 2 0 1 1 0 296 55 0 54 1 109 157 17 1 11 5 23 336 85 0 54 31 55 18 18 0 18 0 0 60 10 0 8 2 0 149 10 1 5 4 32 198 16 0 5 11 0 3 0 0 0 0 0 239 60</td> <td>13 0 0 0 0 7 2 163 8 0 8 0 45 10 8 0 0 0 0 3 0 28 28 0 27 1 0 0 109 8 0 3 5 21 10 22 14 9 5 0 6 5 9 9 0 9 0 0 0 22 14 9 5 0 6 5 9 9 0 9 0 0 0 22 2 0 1 1 0 0 296 55 0 54 1 109 26 157 17 1 11 5 23 2 336 85 0 54 31 55 24 18 18 0 18 0 0 0 149 10 1</td> <td>13 0 0 0 0 7 2 4 163 8 0 8 0 45 10 18 8 0 0 0 0 3 0 1 28 28 0 27 1 0 0 0 109 8 0 3 5 21 10 7 22 14 9 5 0 6 5 0 9 9 0 9 0 0 0 0 22 14 9 5 0 6 5 0 9 9 0 9 0 0 0 0 296 55 0 54 1 109 26 19 157 17 1 11 5 23 2 4 336 85 0 54 31 55 24 13 18 18 18 0 18 0 0</td> <td> Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion Sepundarion sciences Sepundarion Se</td> <td> Section Sect</td> <td> All Fields Fiel</td> <td> Security Security</td> <td> Alii September September</td> <td> Security Security</td> <td> Separate Separate</td> <td> Section Sect</td> <td> Section Sect</td> <td> Section Sect</td> <td> All See See</td> <td> Page Page </td> <td> Section Sect</td> <td> Section Sect</td> <td> Recommendation Reco</td> <td> Second Column Second Colum</td> <td> </td> <td> Part Part </td> | 13 0 0 0 0 7 163 8 0 8 0 45 8 0 0 0 0 3 28 28 0 27 1 0 109 8 0 3 5 21 22 14 9 5 0 6 9 9 0 9 0 0 2 2 0 1 1 0 296 55 0 54 1 109 157 17 1 11 5 23 336 85 0 54 31 55 18 18 0 18 0 0 60 10 0 8 2 0 149 10 1 5 4 32 198 16 0 5 11 0 3 0 0 0 0 0 239 60 | 13 0 0 0 0 7 2 163 8 0 8 0 45 10 8 0 0 0 0 3 0 28 28 0 27 1 0 0 109 8 0 3 5 21 10 22 14 9 5 0 6 5 9 9 0 9 0 0 0 22 14 9 5 0 6 5 9 9 0 9 0 0 0 22 2 0 1 1 0 0 296 55 0 54 1 109 26 157 17 1 11 5 23 2 336 85 0 54 31 55 24 18 18 0 18 0 0 0 149 10 1 | 13 0 0 0 0 7 2 4 163 8 0 8 0 45 10 18 8 0 0 0 0 3 0 1 28 28 0 27 1 0 0 0 109 8 0 3 5 21 10 7 22 14 9 5 0 6 5 0 9 9 0 9 0 0 0 0 22 14 9 5 0 6 5 0 9 9 0 9 0 0 0 0 296 55 0 54 1 109 26 19 157 17 1 11 5 23 2 4 336 85 0 54 31 55 24 13 18 18 18 0 18 0 0 | Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion sciences Sepundarion Sepundarion sciences Sepundarion Se | Section Sect | All Fields Fiel | Security Security | Alii September September | Security Security | Separate Separate | Section Sect | Section Sect | Section Sect | All See See | Page Page | Section Sect | Section Sect | Recommendation Reco | Second Column Second Colum | | Part Part |

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TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sc	ience																	
			al resources	seo				sciences	ocean sciences						nal relations			_				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. NC Greensboro	74	6	0	0	6	0	0	0	0	0	0	13	0	0	0	12	0	1	0	0	0	0	0	0	0	0	0
Wake Forest U.	35	24	0	24	0	10	6	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
North Dakota	134	39	16	20	3	16	8	4	1	3	0	19	0	0	0	18	0	1	8	0	1	1	3	1	0	0	2
ND State U.	67	33	16	14	3	14	7	4	0	3	0	3	0	0	0	2	0	1	4	0	1	0	1	1	0	0	1
U. ND	67	6	0	6	0	2	1	0	1	0	0	16	0	0	0	16	0	0	4	0	0	1	2	0	0	0	1
Ohio	1,775	400	47	269	84	258	88	32	16	44	78	240	7	17	22	129	29	36	315	15	48	21	106	14	27	41	43
Air Force Institute of Technology	22	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	19	4	0	0	12	0	1	0	2
Bowling Green State U.	91	8	0	8	0	18	5	0	1	10	2	22	0	0	0	16	5	1	0	0	0	0	0	0	0	0	0
Case Western Reserve U.	177	72	0	45	27	25	10	2	0	3	10	11	1	0	0	5	4	1	42	0	14	2	5	0	2	6	13
Cleveland State U.	58	7	0	7	0	9	9	0	0	0	0	8	0	0	0	2	0	6	8	0	1	0	3	0	0	0	4
Hebrew Union C.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kent State U.	103	21	0	19	2	13	1	4	1	2	5	27	1	0	2	20	2	2	0	0	0	0	0	0	0	0	0
Miami U.	45	10	2	8	0	6	4	0	2	0	0	14	0	0	5	8	0	1	0	0	0	0	0	0	0	0	0
OH State U., The	664	170	39	99	32	99	23	16	9	22	29	96	5	17	15	32	14	13	98	2	11	2	41	8	8	12	14
OH U.	134	16	1	14	1	18	5	1	0	1	11	6	0	0	0	5	0	1	11	0	2	0	7	0	0	0	2
U. Akron	94	2	0	1	1	29	19	0	0	0	10	15	0	0	0	10	2	3	26	0	13	7	3	0	0	3	0
U. Cincinnati	225	46	5	24	17	25	10	3	2	3	7	31	0	0	0	21	2	8	68	7	3	10	25	5	10	6	2
U. Dayton	30	2	0	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	17	2	0	0	5	0	6	3	1
U. Toledo	100	40	0	36	4	6	2	0	1	2	1	9	0	0	0	9	0	0	15	0	4	0	1	1	0	8	1
Wright State U.	24	6	0	6	0	6	0	6	0	0	0	1	0	0	0	1	0	0	11	0	0	0	4	0	0	3	4
Youngstown State U.	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	411	99	39	44	16	57	17	9	11	9	11	45	3	4	1	30	3	4	69	1	18	6	11	6	0	21	6
OK State U.	182	60	39	13	8	22	9	3	0	4	6	7	0	0	0	6	1	0	25	0	2	2	5	3	0	11	2
U. OK	193	36	0	28	8	28	8	0	10	5	5	29	3	4	1	15	2	4	31	1	8	3	6	3	0	6	4
U. Tulsa	36	3	0	3	0	7	0	6	1	0	0	9	0	0	0	9	0	0	13	0	8	1	0	0	0	4	0
Oregon	428	143	43	79	21	82	26	17	16	11	12	66	5	9	6	27	10	9	37	0	2	4	21	0	1	2	7
OR Health & Science U.	43	32	2	23	7	2	0	1	0	0	1	4	0	0	0	4	0	0	3	0	0	0	2	0	0	0	1
OR State U.	179	89	41	37	11	30	7	5	13	3	2	10	0	3	0	2	1	4	29	0	2	3	17	0	1	2	4
Portland State U.	36	3	0	3	0	7	1	4	1	1	0	7	0	0	1	3	0	3	4	0	0	1	2	0	0	0	1
U. OR	170	19	0	16	3	43	18	7	2	7	9	45	5	6	5	18	9	2	1	0	0	0	0	0	0	0	1

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

TABLE 3-43a. Institutions granting						J	5	-, - , -		ence		-, -															
	_		ıl resources	ses				sciences	and ocean sciences						ıal relations							Er	gineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Pennsylvania	2,407	497	39	341	117	370	117	110	23	59	61	313	34	41	36	143	22	37	411	8	66	41	83	18	50	62	83
Bryn Mawr C.	10	1	0	1	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Carnegie Mellon U.	204	8	0	7	1	79	14	49	0	9	7	10	0	2	0	2	0	6	82	1	14	13	25	0	6	12	11
Drexel U.	107	19	0	18	1	7	3	2	0	0	2	22	0	1	0	21	0	0	41	1	6	4	9	0	7	6	8
Duquesne U.	46	8	0	5	3	6	6	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
Gannon U.	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Indiana U. PA	68	1	1	0	0	0	0	0	0	0	0	5	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0
Lehigh U.		6	0	6	0		4	-	0	2	3	8		1	0	3 7	0	0	39	0	11	8	9	0	3	7	1
Marywood U.	83			0 1		14	-	5			-		0		•		-	•		-				-	0		
PA State U., The	10	2	0		1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	•	0	0
Temple U.	685	138	38	81	19	110	35	17	17	15	26	83	5	8	8	40	9	13	152	6	18	14	28	15	21	27	23
Thomas Jefferson U.	243	51	0	34	17	21	5	3	0	10	3	52	7	5	0	29	3	8	5	0	0	0	2	0	1	1	1
U. PA	17	16	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	484	115	0	102	13	77	31	22	4	10	10	66	13	18	11	13	7	4	48	0	10	0	4	0	9	6	19
U. Pittsburgh	382	112	0	69	43	56	19	12	2	13	10	52	9	6	17	13	2	5	43	0	7	2	6	3	3	3	19
U. the Sciences in Philadelphia	12	12	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villanova U.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Westminster Theological Seminary	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Widener U.	45	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	153	17	0	17	0	11	9	1	0	0	1	63	0	0	1	60	0	2	6	0	0	5	1	0	0	0	0
Carlos Albizu U. San Juan campus	25	0	0	0	0	0	0	0	0	0	0	25	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0
Inter American U. PR-Metro campus	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ponce School of Medicine	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. PR- Ponce	14	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0
U. PR-Mayaguez	7	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	5	1	0	0	0	0
U. PR-Medical Sciences campus	6	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			al resources	seo				sciences	ocean sciences						nal relations			_				Er	gineerii	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oo	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. PR-Rio Piedras	71	9	0	9	0	10	9	0	0	0	1	24	0	0	1	21	0	2	0	0	0	0	0	0	0	0	0
Rhode Island Brown U. Salve Regina U. U. RI	247 168 3 76	54 39 0 15	4 1 0 3	38 36 0 2	12 2 0 10	79 52 0 27	21 14 0 7	11 11 0 0	22 5 0 17	13 11 0 2	12 11 0 1	46 35 0 11	7 7 0 0	14 14 0 0	2 2 0 0	19 8 0 11	2 2 0 0	2 2 0 0	21 12 0 9	0 0 0	0 0 0	1 0 0 1	6 3 0 3	1 0 0 1	5 5 0 0	4 2 0 2	4 2 0 2
South Carolina Clemson U. Medical U. SC SC State U. U. SC	446 138 39 36 233	120 30 38 1 51	16 14 0 1	67 13 29 0 25	37 3 9 0 25	61 24 0 0	23 13 0 0	11 4 0 0	6 0 0 0	13 4 0 0	8 3 0 0 5	53 14 1 0 38	0 0 0 0	11 11 0 0	9 0 1 0 8	24 1 0 0 23	3 0 0 0 3	6 2 0 0	85 46 0 0	0 0 0 0	17 3 0 0	24 16 0 0 8	17 5 0 0	4 4 0 0	4 4 0 0	10 5 0 0	9 9 0 0
South Dakota	86	17	5	11	1	7	2	0	5	0	0	15	0	0	0	6	8	1	3	0	0	0		0	2	0	1
SD School of Mines & Technology SD State U. U. SD	7 21 58	0 9 8	0 5 0	0 4 7	0 0 1	5 2 0	0 2 0	0 0	5 0 0	0 0 0	0 0	0 9 6	0 0 0	0 0 0	0 0	0 0 6	0 8 0	0 1 0	2 1 0	0 0	0 0 0	0 0 0	0 0	0 0 0	2 0 0	0 0	0 1 0
Tennessee East TN State U. Meharry Medical C.	764 25 13	191 7 13	9 0	130 7 12	52 0	88 0	33	10 0 0	9	15 0 0	21 0	108 0 0	5 0 0	12 0 0	4 0	75 0 0	6 0	6 0	102	2 0	8 0	14 0 0	22 0	1 0 0	18 0 0	18 0 0	19 0 0
Mid-America Baptist Theological Seminary Middle TN State U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TN State U. TN Technological U.	17 46 22	4 0 0	0 0 0	0 0 0	0	0	0	0 0 0	0	0 0 0	0 0 0	3 9 0	0 0 0	0	0	9	0 0 0	0	0	0	0 0 0	0	0 0 4	0 0 0	0	0 0 3	0 0 1
U. Memphis U. TN Health Science Ctr. U. TN, Chattanooga U. TN, Knoxville Vanderbilt U.	103 42 1 253 240	10 39 0 44 74	0 0 0 9	9 13 0 20 69	1 26 0 15 5	15 1 0 43 28	4 1 0 14 13	4 0 0 5	4 0 0 5	3 0 0 4 8	0 0 0 15 6	21 1 0 42 32	0 0 0 2 3	2 0 0 2 5	0 0 0 3	19 1 0 30 16	0 0 0 1 5	0 0 0 4 2	6 1 1 47 37	0 0 1 1	0 0 0 3 5	0 0 0 5	1 0 0 10 7	0 0 0 1	0 0 0 17 0	0 0 0 8 7	5 1 0 2 10
Texas Baylor C. of Medicine	3,293 65	733 64	88	492 64	153 0	535	132	130	67 0	92	114	410	20	50 0	49	192	27 0	72 0	561 0	17 0	92 0	74 0	185	22	32	73 0	66

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

TABLE 3-43a. Institutions granting						,	- J	-, -, -		ence																	
			resources	ses				ciences	ocean sciences						al relations							Er	gineerii	ng			
nstitution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oce	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
Baylor U.	65	13	0	8	5	19	9	0	0	9	1	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Dallas Theological Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lamar U.	23	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	3	4	0	0	0	0	1
Rice U.	143	10	1	9	0	56	15	11	7	12	11	18	1	4	5	8	0	0	38	0	8	3	9	0	1	3	14
St. Mary's U.	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Sam Houston State U.	15	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0
Southern Methodist U.	45	3	0	3	0	14	0	4	3	7	0	11	3	6	0	2	0	0	11	0	0	1	2	0	0	6	2
Southwestern Baptist Theological Seminary	11	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	2	2	2	0	0	0	0	^	^	0	0	0	0	0	0	^	0	0	0	0	0	0	^	0	0	0	0
TX A&M U.	3	3	3	0	0 8	0	0	0	0	0	0	0	0	0 11	0	0	0 4	0	0 157	0 9	0	0	0 41	0 4	0	0	0
	579	121	48	65	0	93	30	14	16	16	17	70	3	11	12	25	4	15	157	9	30	14	41	4	6	36	17
TX A&M U. System-Health Science Ctr.	21	21	0	20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCommerce	41	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCorpus Christi	19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
TX A&M UKingsville	43	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	0	0	0	0	1
TX Christian U.	15	1	0	1	0	5	3	0	0	0	2	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
TX Southern U.	28	1	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
TX State USan Marcos Southwest TX State U.	16	0	0	0	0	2	0	0	2	0	0	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
TX Tech U.	198	42	22	13	7	29	8	5	1	9	6	27	0	8	1	18	0	0	23	0	5	5	5	4	0	2	2
TX Tech U. Health Sciences Ctr.	14	14	1	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX Womans U.	84	35	0	1	34	0	0	0	0	0	0	23	0	0	0	19	4	0	0	0	0	0	0	0	0	0	0
U. Dallas	3	0	0	0	0	0	0	0	0	0	0	23 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
U. Houston	220	25	0	17	8	56	13	11	8	9	15	22	0	5	4	13	0	0	35	0	9	4	10	4	2	1	5
U. North TX	184	6	2	4	0	30	11	12	0	4	3	36	0	0	1	27	6	2	4	0	0	0	0	0	4	0	0
U. North TX, Health Science Ctr. Ft. Worth	12	10	0	8	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
U. St. Thomas	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX Medical Branch- Galveston	50	44	0	32	12	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
	_		al resources	ces				sciences	ocean sciences						nal relations			_				En	gineerir	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and oc	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
U. TX-Arlington	127	3	1	2	0	22	6	12	0	1	3	11	0	0	2	6	0	3	52	1	0	6	26	9	3	4	3
U. TX-Austin	778	78	3	57	18	138	28	32	16	18	44	103	13	15	18	36	13	8	186	7	37	30	61	1	10	20	20
U. TX-Dallas	125	8	0	6	2	44	7	21	9	6	1	23	0	1	3	4	0	15	23	0	0	0	23	0	0	0	0
U. TX-El Paso	39	5	1	4	0	7	1	1	5	0	0	6	0	0	0	6	0	0	13	0	0	4	1	0	6	1	1
U. TX-Health Science Ctr Houston	115	106	1	66	39	6	0	0	0	1	5	3	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0
U. TX-Health Science CtrSan Antonio	38	34	0	22	12	2	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
U. TX-Pan American	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX-San Antonio	46	10	2	8	0	7	0	7	0	0	0	5	0	0	2	0	0	3	7	0	0	0	7	0	0	0	0
U. TX-Southwestern Medical CtrDallas	85	70	0	70	0	4	1	0	0	0	3	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
U. the Incarnate Word	27	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
West Texas A&M U.	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utah	431	400	9	00	00	0.4	25	00	40	9	20	C4	0	44	_	40	4	4	00	0	8	40	19	0	_	40	45
Brigham Young U.	431 78	100 13	0	63 9	28 4	94 13	35 8	20	10 0	9	20 1	61 22	0	11	5 0	40 21	1	4 0	69 15	2	o 4	10 1	9	0	5 0	10 1	15 0
U. UT	271	63	0	39	24	63	22	14	10	6	11	31	0	9	5	13	0	4	42	0	4	1	9	0	5	8	15
UT State U.	82	24	9	15	0	18	5	3	0	2	8	8	0	2	0	6	0	0	12	2	0	8	1	0	0	1	0
					Ū		Ü				-	O			·	O			12	_	ŭ	Ü			ŭ	'	
Vermont	60	30	6	23	1	7	7	0	0	0	0	4	0	0	0	4	0	0	4	0	0	1	3	0	0	0	0
Middlebury C. U. VT	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O. VI	57	30	6	23	1	7	7	0	0	0	0	4	0	0	0	4	0	0	4	0	0	1	3	0	0	0	0
Virginia	1,147	209	34	118	57	182	43	51	20	27	41	170	6	29	17	66	13	39	229	14	19	25	78	9	13	28	43
C. of William and Mary	52	3	2	1	0	19	0	3	6	0	10	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0
George Mason U.	169	37	8	17	12	32	1	21	3	4	3	57	0	17	4	14	1	21	10	0	0	1	4	0	1	0	4
Hampton U.	4	2	0	0	2	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolk State U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Old Dominion U.	67	11	0	10	1	13	0	2	3	4	4	9	0	0	3	5	0	1	21	4	0	1	7	0	0	0	9
Regent U.	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Union Theological Seminary- PSCE	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. VA	348	51	3	36	12	54	21	10	0	5	18	53	6	11	6	22	8	0	62	1	5	1	15	0	8	12	20

TABLE S-45a. Institutions granting research doctorates in science and engineering fields, by state and field of study: 2007

	_								Sci	ence																	
			resources	s es				ciences	an sciences						al relations			_				Er	ngineeri	ng			
Institution	All fields	Life sciences	Agricultural sciences/natural resources	Biological/biomedical sciences	Health sciences	Physical sciences	Chemistry	Computer and information sciences	Earth, atmospheric, and ocean sciences	Mathematics	Physics and astronomy	Social sciences	Anthropology	Economics	Political science/ international relations	Psychology	Sociology	Other social sciences	Engineering	Aerospace/aeronautical	Chemical and related	Civil and related	Electrical and related	Industrial	Materials/metallurgical	Mechanical and related	Other
VA Commonwealth U.	125	54	1	26	27	12	11	0	0	1	0	29	0	0	2	13	0	14	8	0	1	0	3	0	0	0	4
VA Polytechnic Institute and State U.	356	51	20	28	3	50	10	15	7	13	5	22	0	1	2	12	4	3	126	9	12	22	49	9	3	16	6
Washington Gonzaga U. Seattle Pacific U. Seattle U. U. WA WA State U.	835 9 42 17 592 175	236 1 0 0 183 52	32 1 0 0 12 19	145 0 0 0 116 29	59 0 0 0 55 4	138 0 0 0 113 25	46 0 0 0 37 9	13 0 0 0 9 4	32 0 0 0 30 2	26 0 0 0 22 4	21 0 0 0 15 6	145 5 36 0 71 33	15 0 0 0 11 4	22 0 0 0 13 9	10 0 0 0 10	71 2 36 0 19 14	9 0 0 0 4 5	18 3 0 0 14 1	129 0 0 0 102 27	2 0 0 0 2	14 0 0 0 13 1	22 0 0 0 13 9	40 0 0 0 36 4	2 0 0 0 1 1	16 0 0 0 12 4	4 0 0 0 2 2	29 0 0 0 23 6
West Virginia Marshall U. WV U.	160 17 143	43 5 38	6 0 6	30 5 25	7 0 7	15 0 15	4 0 4	3 0 3	2 0 2	2 0 2	4 0 4	28 0 28	0 0 0	4 0 4	7 0 7	15 0 15	0 0 0	2 0 2	24 0 24	4 0 4	4 0 4	4 0 4	2 0 2	1 0 1	0 0 0	7 0 7	2 0 2
Wisconsin Cardinal Stritch U. Marquette U. Medical C. WI U. WI-Madison U. WI-Milwaukee	988 19 75 19 773 102	244 0 6 17 211 10	33 0 0 0 33 0	171 0 4 17 147 3	40 0 2 0 31 7	179 0 6 2 159	67 0 6 0 54 7	21 0 0 0 20 1	11 0 0 0 11 0	42 0 0 1 39 2	38 0 0 1 35 2	131 0 14 0 84 33	8 0 0 0 7 1	29 0 0 0 24 5	15 0 0 0 10 5	51 0 14 0 18 19	15 0 0 0 14 1	13 0 0 0 11 2	132 0 12 0 109 11	0 0 0 0 0	10 0 0 0 10	14 0 1 0 11 2	38 0 3 0 31 4	13 0 0 0 12 1	9 0 0 0 8 1	25 0 2 0 20 3	23 0 6 0 17 0
Wyoming U. WY	74 74	19 19	7 7	12 12	0	13 13	4	0	8	1 1	0	14 14	1 1	4	0	9	0	0	12 12	1 1	4	1 1	5 5	0	0	1 1	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

	_					•		Non-so	ience a	and eng	jineerir	ng						_
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
All U.S. Institutions	48,112	6,444	2,159	2,667	298	879	441	5,112	334	572	608	940	2,658	2,958	1,506	555	876	21
Alabama AL A&M U. AL State U. Aubum U. U. AL Birmingham U. AL in Huntsville U. AL, The	575 10 5 196 157 30	124 3 5 40 18 0 49	36 0 5 7 10 0 14	55 0 0 21 1 0 24	9 0 0 5 2 0 2	19 3 0 7 4 0 5	5 0 0 1 0 4	34 0 0 12 0 0 22	6 0 0 2 0 0 4	6 0 0 3 0 0 3	5 0 0 0 0 0 5	11 0 0 7 0 0 4	6 0 0 0 0 0	36 0 0 12 1 0 23	25 0 0 10 1 0 14	8 0 0 0 0 0 8	3 0 0 2 0 0 1	0 0 0 0 0
U. South AL	18	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska U. AK	33 33	3	0	1 1	0	2	0	1 1	0	0	1 1	0	0	0	0	0	0	0
Arizona AZ State U. Northern AZ U. U. AZ	889 385 44 460	158 75 27 56	44 24 12 8	69 29 14 26	4 3 1 0	35 18 0 17	6 1 0 5	93 55 0 38	2 0 0 2	9 4 0 5	3 0 0 3	21 14 0 7	58 37 0 21	57 37 1 19	31 15 0 16	10 8 1 1	16 14 0 2	0 0 0 0
Arkansas AR State U. U. AR U. AR Little Rock U. AR for Medical Sciences	160 10 115 14 21	38 5 25 8 0	8 4 3 1 0	21 0 14 7 0	7 0 7 0	2 1 1 0 0	0 0 0 0	7 2 5 0	0 0 0 0	0 0 0 0	0 0 0 0	3 1 2 0 0	4 1 3 0 0	10 0 9 1	8 0 8 0 0	0 0 0 0	2 0 1 1 0	0 0 0 0
California Alliant International U./Alameda Alliant International U./Alhambra Alliant International U./Fresno Alliant International U./San Diego Biola U. CA Institute Integral Studies CA Institute of Technology Claremont Graduate U. Claremont School of Theology Fielding Graduate Institute	5,806 13 18 17 45 15 23 206 107 10	520 0 0 0 0 6 1 0 24 0	202 0 0 0 0 1 0 5 0	194 0 0 0 0 1 0 0 8 0 2	9 0 0 0 0 0 0 0 3	45 0 0 0 0 1 0 4 0	70 0 0 0 0 3 1 0 4 0	614 0 0 0 0 0 13 0 23 5	43 0 0 0 0 0 0 0 1 0	35 0 0 0 0 0 0 0	81 0 0 0 0 0 0 0	119 0 0 0 0 0 0 0 3 0	336 0 0 0 0 0 13 0 18 5	222 1 0 0 9 2 0 1 6 5	124 1 0 0 9 0 0 1 5 0	33 0 0 0 0 0 0 0	64 0 0 0 0 2 0 0 1 5	0 0 0 0 0 0 0
Fuller Theological Seminary Graduate Theological Union	50 22	0	0	0	0	0	0	20 17	0	0	0	1	19 17	9	1 0	1 0	7 5	0

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Institution	— All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
La Sierra U.	8	8	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	36	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
Naval Postgraduate School	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Graduate School of Psychology	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pardee RAND Graduate School	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pepperdine U.	58	51	29	13	0	2	7	0	0	0	0	0	0	4	4	0	0	0
San Diego State U.	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara U.	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saybrook Graduate School	34	1	0	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0
Scripps Research Institute, The	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stanford U.	684	24	1	10	0	2	11	62	6	5	7	13	31	29	24	2	3	0
U. CA, Berkeley	896	31	3	13	0	4	11	113	4	7	22	28	52	36	14	2	20	0
U. CA, Davis	475	15	4	1	1	5	4	38	6	1	11	10	10	0	0	0	0	0
U. CA, Irvine	298	16	13	3	0	0	0	32	4	6	7	4	11	13	11	1	1	0
U. CA, Los Angeles	719	57	17	30	1	2	7	111	6	3	20	27	55	29	10	5	14	0
U. CA, Riverside	177	11	1	9	0	0	1	23	5	5	1	6	6	0	0	0	0	0
U. CA, San Diego	416	6	0	1	1	3	1	29	5	1	2	6	15	3	0	3	0	0
U. CA, San Francisco	131	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
U. CA, Santa Barbara	310	20	6	11	0	2	1	58	2	3	8	13	32	3	0	3	0	0
U. CA, Santa Cruz	127	0	0	0	0	0	0	14	0	2	0	3	9	0	0	0	0	0
U. San Diego	38	21	12	3	0	1	5	0	0	0	0	0	0	2	2	0	0	0
U. San Francisco	41	37	10	14	1	5	7	0	0	0	0	0	0	3	3	0	0	0
U. Southern CA	584	147	63	67	1	10	6	55	4	1	2	5	43	32	11	15	6	0
U. the Pacific	29	19	14	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Colorado	817	109	32	36	2	22	17	59	5	11	6	8	29	29	5	10	13	0
CO School of Mines	64	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
CO State U.	211	28	14	4	0	2	8	0	0	0	0	0	0	0	0	0	0	0
U. CO	310	15	0	0	1	7	7	39	2	1	6	8	22	11	5	6	0	0
U. CO Health Sciences Ctr.	61	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
U. CO-Colorado Springs	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. CO-Denver	34	13	8	1	0	2	2	0	0	0	0	0	0	5	0	0	5	0
U. Denver	82	19	6	13	0	0	0	19	3	10	0	0	6	10	0	4	5	1
U. Northern CO	52	33	4	18	1	10	0	1	0	0	0	0	1	2	0	0	2	0
Connecticut	707	37	10	25	1	1	0	124	11	10	21	28	54	26	13	4	9	0
U. CT	338	36	10	25	1	0	0	27	7	6	5	3	6	13	8	4	1	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

	_							Non-sc	ience a	and eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. Hartford	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Wesleyan U.	14	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Yale U.	354	0	0	0	0	0	0	96	4	4	16	25	47	13	5	0	8	0
Delaware	246	78	48	17	0	7	6	15	2	2	0	6	5	3	0	0	3	0
U. DE	193	31	18	10	0	2	1	15	2	2	0	6	5	0	0	0	0	0
Wilmington C.	53	47	30	7	0	5	5	0	0	0	0	0	0	3	0	0	3	0
District of Columbia	550	58	26	28	0	0	4	75	2	7	14	25	27	85	39	14	32	0
American U.	46	8	5	1	0	0	2	3	0	0	0	3	0	4	0	0	4	0
Catholic U. America	75	1	0	1	0	0	0	23	0	1	6	0	16	14	0	0	14	0
Gallaudet U.	8	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
George Washington U.	222	37	16	19	0	0	2	18	2	4	0	9	3	47	38	0	9	0
Georgetown U.	99	0	0	0	0	0	0	21	0	0	8	10	3	3	0	0	3	0
Howard U.	100	8	4	4	0	0	0	10	0	2	0	3	5	17	1	14	2	0
Florida	1,989	322	97	142	13	54	16	164	24	19	23	15	83	185	115	25	45	0
Barry U.	54	28	19	7	0	0	2	0	0	0	0	0	0	21	10	0	11	0
FL A&M U.	28	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FL Atlantic U.	73	18	13	5	0	0	0	5	0	0	1	0	4	6	3	1	2	0
FL Institute of Technology	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FL International U.	100	14	6	4	3	0	1	7	0	0	6	1	0	6	5	0	1	0
FL State U.	342	55	4	17	3	30	1	72	8	4	10	6	44	46	21	10	15	0
Lynn U.	19	7	6	1	0	0	0	0	0	0	0	0	0	12	12	0	0	0
Nova Southeastern U.	119	5	0	4	0	0	1	0	0	0	0	0	0	38	36	0	2	0
U. Central FL	213	60	25	30	0	2	3	3	0	0	0	0	3	11	8	0	3	0
U. FL U. Miami	647 136	50 5	5 0	35 1	2	8 4	0	36 28	11 2	7 4	2 4	7 1	9 17	29 3	11 1	8 2	10 0	0
U. South FL	213	5 47	8	25	4	9	1	20 13	3	4	0	0	6	3 12	8	4	0	0
U. West FL	25	23	1	13	1	1	7	0	0	0	0	0	0	1	0	0	1	0
Georgia	1,311	195	56	66	22	37	14	95	11	11	12	13	48	104	38	23	43	0
Clark Atlanta U.	42	133	7	0	0	0	6	2	0	0	0	13	1	13	1	0	12	0
Emory U.	177	6	0	4	0	0	2	63	4	3	11	7	38	2	2	0	0	0
GA Institute of Technology	456	0	0	0	0	0	0	1	0	0	0	1	0	12	7	0	5	0
GA Southern U.	63	63	39	23	0	1	0	0	0	0	0	0	0	0	0	0	0	0
GA State U.	173	39	2	19	3	14	1	12	5	3	0	2	2	23	13	10	0	0
Medical C. GA	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	••	,	-	•	-	•	-	-	-	-	-	-	-	-	-	-	-	•

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

The Let Color Methodological and procedured acceptance				J		- ,		Non-so			jineerin	ıg						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. GA	383	74	8	20	19	22	5	17	2	5	1	2	7	54	15	13	26	0
Hawaii	144	19	2	15	0	1	1	16	0	3	4	4	5	5	1	3	1	0
U. HI Manoa	144	19	2	15	0	1	1	16	0	3	4	4	5	5	1	3	1	0
ldaho	132	49	16	16	11	2	4	3	0	1	0	1	1	0	0	0	0	0
Boise State U.	5	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID State U.	28	11	5	5	1	0	0	1	0	1	0	0	0	0	0	0	0	0
U. ID	99	35	11	8	10	2	4	2	0	0	0	1	1	0	0	0	0	0
Illinois	2,422	359	110	167	30	31	21	298	12	38	37	70	141	178	100	32	46	0
Benedictine U.	16	0	0	0	0	0	0	0	0	0	0	0	0	15	15	0	0	0
Chicago Theological Seminary	5	0	0	0	0	0	0	3	0	0	0	1	2	2	0	0	2	0
DePaul U.	22	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	20 7	0	0	0	0	0	0 1	0	0	0	0	0	0	0	0	0	0	0
Garrett Evangelical Theological Seminary	•	1	0	0	0	0	0	2	0	0	0	0	2	4	0	0 1	4	0
IL Institute of Technology IL State U.	73 49	2 28	0	0	0	2 4	0	0 10	0 2	0 4	0	0	0 4	11 0	5 0	0	5 0	0
			11	13			-							4				
Institute for Clinical Social Work	5 159	0 66	0 20	0 42	0 1	0 1	0 2	0 15	0	0 4	0	0 5	0 6	9	0 1	0	4 8	0
Loyola U. Chicago Lutheran School of Theology Chicago	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
National-Louis U.	72	71	44	7	18	1	1	1	0	1	0	0	0	0	0	0	0	0
Northern IL U.	106	58	10	34	9	3	2	10	1	5	1	3	0	1	1	0	0	0
Northwestern U.	381	9	0	6	0	2	1	48	3	5	4	11	25	32	19	13	0	0
Roosevelt U.	10	10	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rush U.	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern IL U.	146	30	9	8	0	8	5	16	0	1	0	1	14	18	13	5	0	0
U. Chicago, The	357	3	0	2	0	0	1	98	2	6	16	37	37	22	16	2	4	0
U. IL-Chicago	284	21	0	17	0	3	1	23	1	8	3	5	6	12	7	0	5	0
U. IL-Urbana-Champaign	693	60	7	38	2	7	6	66	3	4	13	7	39	48	23	11	14	0
Indiana	1,252	164	27	95	6	27	9	171	9	25	17	22	98	82	39	21	22	0
Ball State U.	47	24	5	14	3	2	0	7	3	0	0	0	4	0	0	0	0	0
IN State U.	51	32	14	15	0	3	0	0	0	0	0	0	0	2	2	0	0	0
IN U.	384	74	4	47	2	15	6	88	2	5	10	9	62	43	16	13	14	0
Purdue U.	609	34	4	19	1	7	3	51	2	14	7	5	23	33	21	8	4	0
U. Notre Dame	161	0	0	0	0	0	0	25	2	6	0	8	9	4	0	0	4	0
J		•	•	v	•	•	•		_	•	•	•	•		•	•		•

								Non-so	ience a	ınd eng	jineerin	g						
nstitution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
lowa	658	101	23	44	3	28	3	53	1	5	8	9	30	37	14	15	8	0
Drake U.	8	8	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IA State U.	296	39	14	13	1	11	0	11	0	2	0	3	6	8	3	0	5	0
Maharishi U. Management	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
St. Ambrose U.	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
U. IA	342	46	2	23	2	16	3	42	1	3	8	6	24	26	9	15	2	0
U. Northern IA	8	8	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	452	86	16	51	4	15	0	53	1	3	4	12	33	23	10	9	4	0
KS State U.	156	37	6	23	4	4	0	3	0	0	0	3	0	2	0	0	2	0
U. KS	275	45	6	28	0	11	0	50	1	3	4	9	33	21	10	9	2	0
Wichita State U.	21	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	439	44	16	19	1	8	0	54	9	4	4	5	32	42	9	9	24	0
Asbury Theological Seminary	7	0	0	0	0	0	0	4	0	0	0	0	4	1	0	0	1	0
Southern Baptist Theological Seminary, The	25	0	0	0	0	0	0	16	0	0	0	0	16	9	0	0	9	0
U. KY	279	23	4	12	1	6	0	26	9	2	4	5	6	21	7	9	5	0
U. Louisville	128	21	12	7	0	2	0	8	0	2	0	0	6	11	2	0	9	0
Louisiana	572	62	11	27	7	13	4	71	4	11	19	3	34	41	20	7	14	0
Grambling State U.	2	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
LA State U. and A&M C.	274	39	6	16	6	9	2	35	3	5	5	3	19	24	15	7	2	0
LA State U. Health Sciences Ctr. New Orleans	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA State U. Shreveport	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LA Tech U.	25	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
New Orleans Baptist Theological Seminary	11	1	0	0	1	0	0	4	0	0	0	0	4	3	0	0	3	0
Southern U. and A&M C.	8	4	0	2	0	2	0	0	0	0	0	0	0	1	0	0	1	0
Tulane U.	125	0	0	0	0	0	0	17	1	1	9	0	6	11	3	0	8	0
U. LA Lafayette	42	1	0	0	0	1	0	15	0	5	5	0	5	0	0	0	0	0
U. LA Monroe	17	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. New Orleans	46	13	3	9	0	0	1	0	0	0	0	0	0	1	1	0	0	0
Maine	50	6	4	1	0	1	0	5	0	0	1	4	0	0	0	0	0	0
U. ME	50	6	4	1	0	1	0	5	0	0	1	4	0	0	0	0	0	0
Maryland	1,265	96	40	38	4	10	4	141	5	15	18	26	77	53	28	9	10	0
Baltimore Hebrew U.	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
Bowie State U.	18	12	12	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

The Let Color Moditations granting recognitive acceptance			3	- J	,	,		Non-sc			jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Johns Hopkins U.	384	0	0	0	0	0	0	48	1	5	13	16	13	2	1	1	0	0
Loyola C. in MD	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morgan State U.	36	25	17	6	0	2	0	2	0	0	0	2	0	1	1	0	0	0
Towson U.	4	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. the Health Sciences	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MD	645	53	8	30	3	8	4	88	4	10	5	8	61	36	25	8	3	0
U. MD Baltimore County	64	1	0	0	1	0	0	1	0	0	0	0	1	1	0	0	1	0
U. MD Eastern Shore	9	3	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
U. MD School of Medicine	75	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0
Massachusetts	2,594	155	50	66	5	22	12	306	12	27	30	75	162	145	76	8	61	0
American International C.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boston C.	147	38	17	20	1	0	0	28	0	3	3	7	15	21	13	0	8	0
Boston U.	372	12	2	5	0	4	1	72	1	6	4	5	56	12	10	0	2	0
Brandeis U.	92	0	0	0	0	0	0	15	2	0	0	10	3	5	5	0	0	0
Clark U.	25	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Harvard U.	690	37	7	17	2	3	8	125	7	6	17	40	55	38	14	0	24	0
MA C. Pharmacy & Health Sciences	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA Institute of Technology	601	1	0	1	0	0	0	10	0	0	0	5	5	35	22	3	10	0
New England Conservatory of Music	6	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0
Northeastern U.	83	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Simmons C.	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0
Smith C.	6	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0
Springfield C.	5	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Suffolk U.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tufts U.	99	2	0	1	0	1	0	8	1	3	0	0	4	2	1	0	1	0
U. MA Amherst	294	27	6	13	2	5	1	37	1	7	6	5	18	16	11	5	0	0
U. MA Dartmouth	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MA Harbor campus	35	13	3	8	0	0	2	1	0	0	0	1	0	0	0	0	0	0
U. MA Lowell	66	21	15	1	0	5	0	2	0	2	0	0	0	6	0	0	6	0
U. MA Worcester	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute	26	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Michigan	1,744	215	68	95	13	26	13	190	8	12	27	32	111	100	36	24	35	0
Andrews U.	18	11	9	1	0	0	1	3	0	0	0	0	3	2	1	0	1	0
Calvin Theological Seminary	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Central MI U.	33	6	4	0	1	0	1	3	0	0	0	3	0	0	0	0	0	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

	_							Non-so	cience a	and eng	jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Eastern MI U.	20	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MI State U.	476	77	17	38	6	11	5	47	2	3	7	7	28	47	18	14	10	5
MI Technological U.	65	0	0	0	0	0	0	3	0	0	0	0	3	2	0	2	0	0
Oakland U.	26	6	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
U. Detroit Mercy	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MI	783	35	0	19	4	7	5	106	3	7	15	18	63	34	16	3	15	0
Wayne State U.	207	41	6	29	1	5	0	13	1	0	5	3	4	6	1	5	0	0
Western MI U.	106	23	13	7	0	2	1	14	2	2	0	1	9	9	0	0	9	0
Minnesota	1,057	202	79	65	16	19	23	116	3	7	13	15	78	101	81	7	13	0
Hamline U.	14	13	3	1	0	1	8	0	0	0	0	0	0	0	0	0	0	0
Luther Seminary	11	0	0	0	0	0	0	7	0	0	0	1	6	3	0	0	3	0
Mayo Graduate School	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Mary's U. MN	22	21	20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. MN	778	98	24	49	5	13	7	107	3	7	13	14	70	42	27	7	8	0
U. St. Thomas	21	9	7	2	0	0	0	0	0	0	0	0	0	7	7	0	0	0
Walden U.	185	61	25	12	11	5	8	2	0	0	0	0	2	49	47	0	2	0
Mississippi	386	104	41	35	14	10	4	25	3	9	0	7	6	53	41	6	6	0
Delta State U.	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackson State U.	32	20	8	5	7	0	0	0	0	0	0	0	0	6	6	0	0	0
MS State U.	107	36	12	14	1	5	4	1	0	0	0	1	0	13	12	0	1	0
U. MS	114	13	1	10	2	0	0	11	2	2	0	5	2	19	19	0	0	0
U. MS Medical Ctr.	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. Southern MS	111	34	19	6	4	5	0	13	1	7	0	1	4	15	4	6	5	0
Missouri	835	179	113	35	7	18	6	78	3	12	9	10	44	58	29	8	20	0
Concordia Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
MO U. of Science and Technology	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Louis U.	135	75	64	8	0	2	1	16	1	4	0	3	8	4	3	0	0	1
U. MO-Columbia	285	73	40	18	3	10	2	23	1	4	2	3	13	27	15	8	4	0
U. MO-Kansas City	70	10	2	3	1	3	1	20	0	1	0	0	19	6	0	0	6	0
U. MO-St. Louis	51	17	7	4	3	1	2	0	0	0	0	0	0	1	1	0	0	0
Washington U.	243	4	0	2	0	2	0	19	1	3	7	4	4	19	10	0	9	0
Montana	90	20	8	8	0	4	0	1	0	0	0	1	0	2	0	0	2	0
MT State U.	41	9	1	5	0	3	0	0	0	0	0	0	0	1	0	0	1	0
U. MT	49	11	7	3	0	1	0	1	0	0	0	1	0	1	0	0	1	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

TABLE 3-43b. Institutions granting research doc	otorated in non-cold	1100 ana	ongini	Jonnig	ilolao,	by our	o di id	Non-sc			jineerin	ng						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Nebraska Creighton U. U. NE Medical Ctr. U. NE-Lincoln U. NE-Omaha	322 6 36 269 11	74 0 0 66 8	47 0 0 39 8	23 0 0 23 0	1 0 0 1	0 0 0 0	3 0 0 3	27 0 0 27 0	4 0 0 4 0	5 0 0 5	5 0 0 5	3 0 0 3	10 0 0 10 0	30 0 0 30 0	23 0 0 23 0	4 0 0 4 0	3 0 0 3	0 0 0 0
Nevada U. NV, Las Vegas U. NV, Reno	139 65 74	45 35 10	16 13 3	23 19 4	0 0	6 3 3	0 0 0	8 5 3	1 1 0	3 3 0	0 0	2 0 2	2 1 1	5 5 0	3 3 0	0 0	2 2 0	0 0 0
New Hampshire Antioch New England Graduate School Dartmouth C. Southern NH U. U. NH	143 5 73 6 59	7 0 0 0 7	0 0 0 0	3 0 0 0 3	0 0 0 0	3 0 0 0 3	1 0 0 0	6 0 0 0	1 0 0 0	2 0 0 0 2	0 0 0 0	3 0 0 0 3	0 0 0 0	3 0 0 3	3 0 0 3	0 0 0 0	0 0 0 0	0 0 0 0
New Jersey Drew U. Fairleigh Dickinson U. Montclair State U. NJ Institute Technology	997 29 14 8 50	62 0 0 1	32 0 0 0 0	17 0 0 0 0	1 0 0 0	8 0 0 0	4 0 0 1 0	186 26 0 1	9 1 0 0	16 3 0 0	23 1 0 1 0	43 3 0 0	95 18 0 0	57 2 0 1	24 0 0 0 0	10 0 0 1	23 2 0 0	0 0 0 0
Princeton Theological Seminary Princeton U. Rutgers U. Rutgers State UNewark Seton Hall U. Stevens Institute of Technology U. Medicine & Dentistry of NJ	13 332 361 57 53 39 41	0 0 22 0 39 0	0 0 2 0 30 0	0 0 10 0 7 0	0 0 1 0 0	0 0 8 0 0	0 0 1 0 2 0	8 82 69 0 0	0 3 5 0 0 0	0 5 8 0 0 0	0 13 8 0 0 0	1 27 12 0 0 0	7 34 36 0 0 0	5 2 21 21 0 5	0 0 3 16 0 5	0 9 0 0 0	5 2 9 5 0 0	0 0 0 0 0
New Mexico NM Institute of Mining & Technology NM State U. U. NM	287 8 97 182	58 0 29 29	15 0 6 9	30 0 20 10	2 0 0 2	8 0 1 7	3 0 2 1	30 0 3 27	2 0 0 2	1 0 0	6 0 0 6	7 0 0 7	14 0 3 11	12 0 4 8	6 0 3 3	6 0 1 5	0 0 0	0 0 0
New York Adelphi U. Albany Medical C.	3,837 26 9	368 0 0	99 0 0	118 0 0	14 0 0	100 0 0	37 0 0	592 0 0	42 0 0	56 0 0	68 0 0	103 0 0	323 0 0	227 5 0	76 0 0	34 0 0	117 5 0	0 0 0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

	_							Non-sc	ience a	ınd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Alfred U.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clarkson U.	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Columbia U.	466	0	0	0	0	0	0	106	0	3	28	29	46	44	17	1	26	0
Cornell U.	485	6	0	2	2	1	1	39	0	6	7	10	16	20	10	5	5	0
Cornell U. Weill Med. College	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fordham U.	110	36	19	13	0	2	2	14	4	3	0	0	7	17	1	0	16	0
Graduate School & U. Ctr., CUNY	305	11	0	3	1	1	6	87	14	7	6	17	43	6	4	0	2	0
Hofstra U.	29	9	5	1	0	2	1	2	0	2	0	0	0	4	4	0	0	0
Jewish Theological Seminary of America	3	0	0	0	0	0	0	3	0	0	0	2	1	0	0	0	0	0
Juilliard School, The	6	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0
Long Island UBrooklyn campus	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Long Island UC. W. Post campus	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Mt. Sinai School of Medicine	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New School, The	53	0	0	0	0	0	0	15	0	0	0	0	15	0	0	0	0	0
NY Medical C.	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY U.	337	33	7	9	1	9	7	89	5	7	14	9	54	55	14	11	30	0
Polytechnic U.	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	163	0	0	0	0	0	0	4	0	0	0	1	3	8	5	2	1	0
Rochester Institute of Technology	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockefeller U., The	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY Binghamton U.	109	5	0	2	0	2	1	35	1	7	0	7	20	1	0	0	1	0
SUNY C. of Environmental Science and Forestry	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY Health Science Ctr. Brooklyn	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY State C. of Optometry	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNY Stony Brook U.	296	1	0	1	0	0	0	61	5	4	4	11	37	2	0	0	2	0
SUNY U. Albany	157	25	6	14	0	3	2	18	1	2	6	4	5	19	7	0	12	0
SUNY U. Buffalo	336	32	5	16	2	9	0	42	9	8	2	2	21	12	3	5	4	0
SUNY Upstate Medical U.	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. John's UQueens	60	30	22	7	0	0	1	5	0	1	0	4	0	0	0	0	0	0
Syracuse U.	149	15	0	10	0	5	0	17	2	2	0	3	10	15	4	6	5	0
Teachers C., Columbia U.	198	132	12	36	7	62	15	9	1	0	1	1	6	6	0	4	2	0
Union Theological Seminary	3	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	2	0
U. Rochester	239	30	21	4	0	4	1	39	0	4	0	3	32	7	7	0	0	0
Yeshiva U.	82	3	2	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

TABLE 0-30. Institutions granting research doctor	74.00 111 11011 0010	7100 4114	ongine	Johns	iloido,	by olar		Non-sc			jineerin	g						
Institution	— All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
North Carolina	1,373	154	56	68	11	10	9	142	10	12	22	23	75	71	44	13	14	0
Appalachian State U.	6	6	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Duke U.	288	0	0	0	0	0	0	48	3	5	3	10	27	18	18	0	0	0
East Carolina U.	36	23	21	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
NC A&T State U.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NC State U.	406	35	2	18	7	4	4	0	0	0	0	0	0	14	5	0	9	0
Southeastern Baptist Theological Seminary	11	0	0	0	0	0	0	10	0	0	0	0	10	1	0	0	1	0
U. NC Chapel Hill	464	34	10	17	2	2	3	67	5	4	19	13	26	33	16	13	4	0
U. NC Charlotte	50	22	5	17	0	0	0	0	0	0	0	0	0	1	1	0	0	0
U. NC Greensboro	74	34	13	15	2	4	0	17	2	3	0	0	12	4	4	0	0	0
Wake Forest U.	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	134	39	15	18	3	2	1	4	0	2	0	1	1	9	0	8	1	0
ND State U.	67	5	0	4	1	0	0	1	0	0	0	0	1	7	0	6	1	0
U. ND	67	34	15	14	2	2	1	3	0	2	0	1	0	2	0	2	0	0
Ohio	1,775	282	54	136	14	46	32	151	8	30	16	27	70	129	59	41	29	0
Air Force Institute of Technology	22	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Bowling Green State U.	91	16	12	4	0	0	0	22	0	1	0	5	16	5	1	4	0	0
Case Western Reserve U.	177	1	0	0	0	1	0	8	1	3	0	2	2	18	10	0	8	0
Cleveland State U.	58	15	1	7	1	1	5	0	0	0	0	0	0	11	8	0	3	0
Hebrew Union C.	3	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Kent State U.	103	25	2	23	0	0	0	9	2	2	0	1	4	8	6	2	0	0
Miami U.	45	10	9	1	0	0	0	5	0	3	0	0	2	0	0	0	0	0
OH State U., The	664	97	4	27	8	35	23	68	4	11	16	9	28	36	15	10	11	0
OH U.	134	44	3	37	1	2	1	15	1	6	0	4	4	24	0	23	1	0
U. Akron	94	17	4	8	4	1	0	1	0	0	0	1	0	4	0	0	4	0
U. Cincinnati	225	27	5	16	0	3	3	16	0	4	0	2	10	12	8	2	2	0
U. Dayton	30	8	8	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
U. Toledo	100	17	1	13	0	3	0	3	0	0	0	3	0	10	10	0	0	0
Wright State U.	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Youngstown State U.	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	411	80	17	37	3	8	15	35	3	9	0	7	16	26	17	7	2	0
OK State U.	182	47	6	22	0	4	15	7	0	6	0	1	0	14	12	1	1	0
U. OK	193	33	11	15	3	4	0	24	0	2	0	6	16	12	5	6	1	0
U. Tulsa	36	0	0	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

	_							Non-so	ience a	ınd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Oregon	428	56	17	26	2	9	2	32	4	3	1	3	21	12	2	2	8	0
OR Health & Science U.	43	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0
OR State U.	179	19	5	8	0	5	1	1	0	0	0	1	0	1	0	0	1	0
Portland State U.	36	6	2	3	0	1	0	0	0	0	0	0	0	9	2	0	7	0
U. OR	170	31	10	15	2	3	1	29	4	3	1	1	20	2	0	2	0	0
Pennsylvania	2,407	361	104	161	18	55	23	274	19	44	34	50	127	181	103	44	33	0
Bryn Mawr C.	10	0	0	0	0	0	0	5	0	0	1	0	4	1	0	0	1	0
Carnegie Mellon U.	204	0	0	0	0	0	0	7	0	0	0	3	4	18	16	0	2	0
Drexel U.	107	13	8	1	1	2	1	0	0	0	0	0	0	5	5	0	0	0
Duquesne U.	46	1	0	0	0	0	1	20	2	1	0	0	17	2	0	2	0	0
Gannon U.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indiana U. PA	68	29	6	16	1	6	0	30	6	19	0	0	5	3	2	0	1	0
Lehigh U.	83	6	2	4	0	0	0	10	2	4	0	3	1	0	0	0	0	0
Marywood U.	10	6	4	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0
PA State U., The	685	93	12	58	12	8	3	51	0	5	11	9	26	58	27	21	10	0
Temple U.	243	57	11	29	0	11	6	39	3	1	3	13	19	18	14	4	0	0
Thomas Jefferson U.	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PA	484	66	28	27	2	6	3	62	4	11	9	11	27	50	28	15	7	0
U. Pittsburgh	382	53	16	17	1	13	6	42	2	3	10	10	17	24	11	2	10	1
U. the Sciences in Philadelphia	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Villanova U.	3	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Westminster Theological Seminary	6	0	0	0	0	0	0	5	0	0	0	1	4	1	0	0	1	0
Widener U.	45	37	17	7	1	9	3	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	153	38	12	21	0	3	2	11	1	3	3	2	2	7	0	1	4	0
Carlos Albizu U. San Juan campus	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inter American U. PR-Metro campus	28	24	11	12	0	1	0	0	0	0	0	0	0	4	0	0	2	2
Ponce School of Medicine	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontifical Catholic U. PR-Ponce	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Mayaguez	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Medical Sciences campus	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. PR-Rio Piedras	71	14	1	9	0	2	2	11	1	3	3	2	2	3	0	1	2	0
Rhode Island	247	3	0	2	0	1	0	40	3	2	4	3	28	4	2	2	0	0
Brown U.	168	0	0	0	0	0	0	28	1	0	4	3	20	2	0	2	0	0
Salve Regina U.	3	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
Sans Nogina O.	· ·	9	9	J	•	•	•	9	•	•	•	•	9	•	•	•	v	•

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

The Let Color Moditations granting receases access				5	,	,		Non-sc			jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
U. RI	76	3	0	2	0	1	0	9	2	2	0	0	5	2	2	0	0	0
South Carolina	446	79	15	20	2	8	3	25	2	8	0	5	10	23	10	3	7	0
Clemson U.	138	15	45 8	4	3	1	2	0	0	0	0	5 0	10 0	9	10 2	0	4	3
Medical U. SC	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SC State U.	36	34	33	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0
U. SC	233	30	4	15	3	7	1	25	2	8	0	5	10	13	8	3	2	0
0.00	200	30	7	10	0	,	'	20	2	O	O	3	10	10	O	0	2	U
South Dakota	86	43	22	16	2	2	1	1	0	1	0	0	0	0	0	0	0	0
SD School of Mines & Technology	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD State U.	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. SD	58	43	22	16	2	2	1	1	0	1	0	0	0	0	0	0	0	0
Tennessee	764	154	59	63	7	16	9	65	4	12	10	8	31	56	30	15	11	0
East TN State U.	25	18	15	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Meharry Medical C.	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theological Seminary	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
Middle TN State U.	17	4	0	0	0	4	0	5	2	3	0	0	0	0	0	0	0	0
TN State U.	46	34	20	12	0	0	2	0	0	0	0	0	0	3	0	0	3	0
TN Technological U.	22	12	0	7	1	3	1	0	0	0	0	0	0	0	0	0	0	0
U. Memphis	103	23	7	14	1	0	1	13	0	2	0	2	9	15	9	5	1	0
U. TN Health Science Ctr.	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TN, Chattanooga	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TN, Knoxville	253	29	7	9	2	8	3	18	1	6	3	0	8	30	17	9	4	0
Vanderbilt U.	240	34	10	20	1	1	2	27	1	1	7	6	12	8	4	1	3	0
Texas	3,293	523	153	243	7	91	29	311	20	35	26	48	182	220	134	29	56	0
Baylor C. of Medicine	65	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Baylor U.	65	10	7	3	0	0	0	21	2	2	0	1	16	0	0	0	0	0
Dallas Theological Seminary	7	0	0	0	0	0	0	6	0	0	0	0	6	1	0	0	1	0
Lamar U.	23	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice U.	143	0	0	0	0	0	0	20	2	3	2	7	6	1	0	0	1	0
St. Mary's U.	5	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sam Houston State U.	15	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
Southern Methodist U.	45	0	0	0	0	0	0	6	0	0	0	2	4	0	0	0	0	0
Southwestern Baptist Theological Seminary	11	0	0	0	0	0	0	7	0	0	0	0	7	2	0	0	2	0
Stephen F. Austin State U.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M U.	579	81	22	30	0	25	4	16	3	5	0	5	3	41	20	2	19	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

								Non-sc	ience a	ınd eng	ineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
TX A&M U. System-Health Science Ctr.	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UCommerce	41	36	20	16	0	0	0	2	0	2	0	0	0	0	0	0	0	0
TX A&M UCorpus Christi	19	18	7	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX A&M UKingsville	43	35	18	1	1	5	10	0	0	0	0	0	0	0	0	0	0	0
TX Christian U.	15	0	0	0	0	0	0	5	0	2	0	2	1	0	0	0	0	0
TX Southern U.	28	25	6	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX State USan Marcos Southwest TX State U.	16	7	2	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0
TX Tech U.	198	34	2	21	0	9	2	21	2	5	2	3	9	22	13	3	6	0
TX Tech U. Health Sciences Ctr.	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TX Womans U.	84	17	0	8	0	9	0	4	0	0	0	0	4	5	0	0	5	0
U. Dallas	3	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0
U. Houston	220	43	7	28	1	7	0	27	3	5	4	6	9	12	8	0	4	0
U. North TX	184	65	8	45	1	9	2	35	2	3	0	1	29	8	7	0	1	0
U. North TX, Health Science Ctr. Ft. Worth	12	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
U. St. Thomas	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
U. TX Medical Branch-Galveston	50	0	0	0	0	0	0	5	0	0	0	1	4	0	0	0	0	0
U. TX-Arlington	127	0	0	0	0	0	0	10	1	1	0	7	1	29	18	0	11	0
U. TX-Austin	778	109	25	55	1	24	4	111	4	7	18	11	71	53	24	23	5	1
U. TX-Dallas	125	0	0	0	0	0	0	8	0	0	0	0	8	19	18	1	0	0
U. TX-El Paso	39	7	6	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0
U. TX-Health Science CtrHouston	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. TX-Health Science CtrSan Antonio	38	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
U. TX-Pan American	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
U. TX-San Antonio	46	9	6	1	0	0	2	0	0	0	0	0	0	8	8	0	0	0
U. TX-Southwestern Medical CtrDallas	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. the Incarnate Word	27	10	3	1	0	3	3	1	0	0	0	0	1	14	14	0	0	0
West Texas A&M U.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utah	431	66	17	39	0	7	3	16	0	5	1	5	5	25	10	9	6	0
Brigham Young U.	78	15	8	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0
U. UT	271	35	8	21	0	5	1	16	0	5	1	5	5	21	7	9	5	0
UT State U.	82	16	1	12	0	1	2	0	0	0	0	0	0	4	3	0	1	0
Vermont	60	12	10	1	0	1	0	2	0	0	2	0	0	1	0	0	1	0
Middlebury C.	3	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0
U. VT	57	11	10	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0

TABLE S-45b. Institutions granting research doctorates in non-science and engineering fields, by state and field of study: 2007

								Non-so	ience a	and eng	jineerin	g						
Institution	All fields	Education	Education administration	Education research	Teacher education	Teaching fields	Other education	Humanities	American literature	English language and literature	Foreign language and literature	History	Other humanities	Other fields	Business and management	Communications	Fields nec	Unknown field
Virginia	1,147	203	82	82	9	20	10	80	9	11	5	19	36	74	26	14	34	0
C. of William and Mary	52	16	9	7	0	0	0	12	0	0	0	7	5	0	0	0	0	0
George Mason U.	169	25	4	14	2	3	2	2	0	0	0	1	1	6	2	1	3	0
Hampton U.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolk State U.	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0
Old Dominion U.	67	8	5	1	0	0	2	0	0	0	0	0	0	5	2	0	3	0
Regent U.	14	0	0	0	0	0	0	1	0	0	0	0	1	13	0	13	0	0
Union Theological Seminary-PSCE	8	0	0	0	0	0	0	5	0	0	0	0	5	3	0	0	3	0
U. VA	348	69	24	26	4	11	4	56	9	11	5	9	22	3	1	0	2	0
VA Commonwealth U.	125	13	2	8	2	1	0	1	0	0	0	0	1	8	3	0	5	0
VA Polytechnic Institute and State U.	356	72	38	26	1	5	2	3	0	0	0	2	1	32	18	0	14	0
Washington	835	74	40	23	0	6	5	62	6	9	3	6	38	51	26	13	12	0
Gonzaga U.	9	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seattle Pacific U.	42	6	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Seattle U.	17	16	14	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0
U. WA	592	31	13	14	0	2	2	49	3	8	3	5	30	43	19	12	12	0
WA State U.	175	18	9	5	0	3	1	12	3	1	0	1	7	8	7	1	0	0
West Virginia	160	35	17	12	0	5	1	13	1	2	0	5	5	2	1	1	0	0
Marshall U.	17	12	8	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
WV U.	143	23	9	9	0	4	1	13	1	2	0	5	5	2	1	1	0	0
Wisconsin	988	109	46	45	8	4	6	137	9	19	22	22	65	56	25	14	17	0
Cardinal Stritch U.	19	18	15	0	2	0	1	0	0	0	0	0	0	1	0	1	0	0
Marquette U.	75	3	2	1	0	0	0	31	4	7	0	2	18	3	0	0	3	0
Medical C. WI	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U. WI-Madison	773	74	26	41	3	3	1	98	4	8	22	20	44	38	14	12	12	0
U. WI-Milwaukee	102	14	3	3	3	1	4	8	1	4	0	0	3	14	11	1	2	0
Wyoming	74	16	1	9	5	1	0	0	0	0	0	0	0	0	0	0	0	0
U. WY	74	16	1	9	5	1	0	0	0	0	0	0	0	0	0	0	0	0

TABLE S-46. Top 50 doctorate-granting institutions: 2007

Rank Institution recip 1 U. CA, Berkeley	torate bients 896 783
1 U. CA, Berkeley	896
-	
O 11 MI	783
2 U. MI	
3 U. MN	778
3 U. TX-Austin	778
5 U. WI-Madison	773
6 U. CA, Los Angeles	719
7 U. IL-Urbana-Champaign	693
8 Harvard U.	690
9 PA State U., The	685
10 Stanford U.	684
11 OH State U., The	664
12 U. FL	647
13 U. MD	645
14 Purdue U.	609
15 MA Institute of Technology	601
16 U.WA	592
17 U. Southern CA	584
18 TX A&M U.	579
19 Cornell U.	485
20 U. PA	484
21 MI State U.	476
22 U. CA, Davis	475
23 Columbia U.	466
24 U. NC Chapel Hill	464
25 U. AZ	460
26 GA Institute of Technology	456
27 U. CA, San Diego	416
28 NC State U.	406
29 AZ State U.	385
30 IN U.	384
30 Johns Hopkins U.	384
32 U. GA	383
33 U. Pittsburgh	382
34 Northwestern U.	381
35 Boston U.	372
36 Rutgers U.	361
37 U. Chicago, The	357
38 VA Polytechnic Institute and State U.	356
39 Yale U.	354
40 U. VA	348
41 FL State U.	342
41 U. IA	342
43 U.CT	338
44 NY U.	337
45 SUNY U. Buffalo	336
46 Princeton U.	332
47 U. CA, Santa Barbara	310
47 U.CO	310
49 Graduate School & U. Ctr., CUNY	305
50 U. CA, Irvine	298

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2007 Survey of Earned

Doctorates, including updates received in 2008.

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TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

Subfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
All fields	42,539	42,638	41,097	41,366	40,738	40,025	40,758	42,118	43,381	45,615	48,112
Life sciences	8,421	8,612	8,204	8,624	8,368	8,479	8,508	8,816	9,310	9,700	10,628
Agricultural sciences/natural resources	1,212	1,267	1,216	1,180	1,134	1,129	1,179	1,155	1,160	1,146	1,320
Agricultural and horticultural plant breeding	68	69	44	68	37	59	50	36	35	41	37
Agricultural animal breeding	24	18	21	22	16	14	21	13	14	12	15
Agricultural business and management	1	2	2	5	3	1	1	na	na	na	na
Agricultural economics	133	156	149	138	154	119	118	110	122	113	186
Agronomy and crop science	77	97	106	69	75	74	55	63	79	56	72
Animal nutrition	55	45	47	45	45	49	41	47	51	46	55
Animal science, other	62	60	70	73	71	70	88	75	71	72	63
Dairy science	14	10	12	9	2	7	18	na	na	na	na
Environmental science	96	72	99	95	119	113	135	130	129	132	159
Fishing and fisheries sciences/management	45	30	38	43	44	53	47	38	34	52	42
Food science	11	13	7	10	16	7	11	94	93	97	122
Food science and technology, other	175	153	137	142	130	129	157	74	48	45	33
Forest engineering	13	2	1	3	0	3	3	na	na	na	na
Forest sciences and biology	22	20	15	22	27	19	16	36	29	32	42
Forest/resources management	21	27	17	13	13	15	18	26	40	37	4
Forestry and related science, other	49	69	49	54	48	57	47	34	24	28	32
Horticulture science	44	60	66	55	37	46	54	46	49	54	49
Natural resources/conservation	17	25	25	19	32	27	48	45	64	60	72
Plant pathology/phytopathology	65	66	66	63	52	53	48	56	71	63	69
Animal science, poultry (or avian)	9	11	8	9	11	10	18	21	14	15	2
Plant sciences, other	20	37	38	29	26	27	29	34	31	43	46
Soil chemistry/microbiology	32	27	29	26	23	29	24	21	24	20	23
Soil sciences, other	56	74	67	64	56	55	50	52	52	48	57
Wildlife/range management	50	56	44	56	41	37	46	42	44	51	40
Wood science and pulp/paper technology	25	25	21	11	20	29	19	19	15	12	24
Agriculture, general	10	8	8	10	2	4	2	6	10	6	4
Agricultural science, other	18	35	30	27	34	23	15	37	17	11	9
Biological/biomedical sciences	5,788	5,846	5,581	5,853	5,694	5,695	5,696	5,942	6,366	6,649	7,179
Anatomy	50	35	33	39	29	20	33	13	23	21	20
Bacteriology	13	13	13	15	17	12	6	15	13	10	22
Biochemistry	831	800	759	776	729	781	772	703	693	784	863
Bioinformatics	na	79									
Biomedical sciences	158	182	176	155	155	220	181	183	249	278	293
Biometrics and biostatistics	84	75	76	92	90	81	84	100	129	106	12
Biophysics (Biology)	147	166	173	164	162	151	161	130	144	183	177
Biotechnology	11	12	19	14	9	13	24	26	23	32	28
Botany/plant biology	91	113	67	92	75	84	80	135	87	92	112
Cancer biology	na	9									
Cell/cellular biology and histology	251	300	281	337	315	302	301	292	316	337	370
Developmental biology/embryology	115	127	108	112	107	93	126	141	162	149	173

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

bfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	200
Ecology	255	293	273	297	339	311	347	366	411	391	46
Endocrinology	17	30	19	20	18	14	21	22	29	18	2
Entomology	123	138	114	137	90	113	111	108	103	117	9
Evolutionary biology	na										
Genetics/Genomics, Human and Animal	217	197	216	227	199	226	226	258	285	286	3
Pathology, human and animal	106	90	120	106	117	115	101	98	93	80	1
Pharmacology, human and animal	300	255	254	267	257	268	275	288	315	328	2
Physiology, human and animal	227	258	244	241	216	208	215	208	208	221	2
Immunology	214	246	223	239	265	278	261	347	342	390	3
Microbiology	410	383	383	382	394	382	363	393	432	493	į
Molecular biology	775	736	716	706	711	623	615	725	724	780	
Neurosciences	437	413	431	495	486	491	474	584	690	741	7
Nutrition sciences	124	139	102	150	135	142	127	131	163	148	
Parasitology	17	15	13	19	22	17	15	20	21	27	
Plant genetics	30	40	31	35	31	57	38	55	50	62	
Plant pathology/phytopathology	33	18	36	25	31	24	27	25	31	26	
Plant physiology	47	61	54	39	45	43	32	24	38	40	
Toxicology	180	155	114	123	133	122	122	105	102	101	
Zoology	97	111	126	133	103	123	127	94	103	101	
Biology/biomedical sciences, general	209	217	182	199	193	184	194	188	189	187	
Biology/biomedical sciences, other	219	228	225	217	221	197	237	165	198	120	
Health sciences	1,421	1,499	1,407	1,591	1,540	1,655	1,633	1,719	1,784	1,905	2,
Environmental health	67	54	69	52	56	49	53	56	42	75	
Environmental toxicology	na	28	42	43							
Epidemiology	151	165	179	191	168	198	231	217	229	229	
Health systems/services administration	66	62	62	59	51	55	57	66	70	71	
Kinesiology/exercise science	105	130	104	129	151	149	145	164	153	189	
Nursing science	420	399	353	415	365	435	413	394	422	415	
Medicinal/pharmaceutical sciences	142	156	137	164	148	160	118	161	168	154	
Public health	138	154	173	207	216	219	206	260	279	295	
Rehabilitation/therapeutic services	34	35	26	40	36	70	69	67	66	74	
Speech-language pathology and audiology	88	95	86	106	92	100	94	95	97	120	
Veterinary sciences	47	49	49	50	60	57	48	54	47	38	
Health sciences, general	45	17	32	49	35	39	40	33	49	44	
Health sciences, other	118	183	137	129	162	124	159	124	120	158	
hysical sciences	6,581	6,670	6,224	5,983	5,866	5,604	5,830	6,045	6,691	7,462	8
Astronomy	198	206	159	185	186	141	167	165	186	197	
Astronomy	71	91	59	78	89	52	69	68	72	64	
Astrophysics	127	115	100	107	97	89	98	97	114	133	
Atmospheric science and meteorology	149	125	124	143	116	117	139	126	145	146	
Atmospheric chemistry and climatology	45	38	43	39	33	39	39	29	42	30	

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

ubfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Meteorology	28	25	22	34	20	15	25	22	20	18	17
Atmospheric science/meteorology, general	36	22	32	36	34	27	33	24	30	40	4
Atmospheric science/meteorology, other	15	16	10	17	12	23	21	18	25	28	20
Chemistry	2,148	2,216	2,132	1,989	1,982	1,923	2,040	1,986	2,126	2,362	2,32
Analytical chemistry	350	383	333	326	334	302	339	323	363	367	39
Inorganic chemistry	279	287	279	221	279	250	264	240	256	267	27
Medicinal/pharmaceutical chemistry ^a	105	114	131	107	115	99	110	113	110	150	n
Nuclear chemistry	8	6	10	9	4	9	4	na	na	na	n
Organic chemistry	567	598	563	525	523	523	557	541	603	624	65
Physical chemistry	335	279	310	271	285	303	321	264	298	376	32
Polymer chemistry	110	122	95	107	107	102	109	116	119	134	12
Theoretical chemistry	48	41	56	52	40	48	49	54	57	86	8
Chemistry, general	260	284	196	261	203	202	184	198	191	211	31
Chemistry, other	86	102	159	110	92	85	103	137	129	147	15
Computer and information sciences	909	927	856	861	830	809	867	948	1,129	1,453	1,65
Computer science	828	821	741	724	692	674	700	767	952	1,216	1,43
Information science and systems	81	106	115	137	81	80	65	106	84	135	13
Computer and information science, other	na	na	na	na	57	55	102	75	93	102	9
Geological and earth sciences	446	470	420	344	348	391	348	371	379	432	48
Geochemistry	49	58	55	50	41	69	53	38	55	53	5
Geology	165	171	157	123	115	132	119	98	107	126	14
Geomorphology and glacial geology	26	21	18	14	10	15	20	22	12	24	2
Geophysics and seismology	108	106	100	70	88	92	75	87	92	81	11
Mineralogy and petrology	19	14	14	5	15	13	8	17	8	18	1
Paleontology	23	23	15	31	16	21	18	25	29	30	3
Stratigraphy and sedimentation	23	24	17	13	13	7	16	19	15	19	2
Geological and earth sciences, general	16	13	9	20	16	12	9	23	24	30	2
Geological and earth sciences, other	17	40	35	18	34	30	30	42	37	51	5
Mathematics	1,123	1,177	1,083	1,050	1,010	919	993	1,076	1,205	1,325	1,39
Algebra	78	75	84	82	68	65	69	97	97	124	11
Analysis and functional analysis	103	130	86	81	91	74	85	99	111	98	11
Applied mathematics	242	265	252	238	214	226	223	264	292	347	33
Computing theory and practice	14	19	14	17	11	11	8	10	16	14	3
Geometry/geometric analysis	70	54	65	59	41	52	48	95	96	89	9
Logic	23	16	23	19	24	14	17	15	26	20	2
Number theory	46	46	50	40	35	26	46	39	62	60	6
Operations research	20	17	21	19	14	19	19	25	23	32	3
Statistics	181	204	174	195	200	166	191	226	267	301	35
Topology/foundations	62	65	65	50	54	40	49	52	51	72	6
Mathematics/statistics, general	153	162	116	151	155	133	150	81	104	107	14
Mathematics/statistics, other	131	124	133	99	103	93	88	73	60	61	14

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

Subfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Ocean/marine sciences	208	171	179	207	196	181	196	189	190	179	231
Hydrology and water resources	43	35	32	43	45	35	26	49	41	38	42
Marine sciences	30	18	30	36	36	42	36	59	61	61	72
Oceanography, chemical and physical	114	94	100	99	85	86	98	66	74	60	109
Ocean/marine, other	21	24	17	29	30	18	36	15	14	20	8
Physics	1,400	1,378	1,271	1,204	1,198	1,123	1,080	1,184	1,331	1,368	1,554
Acoustics	19	18	16	10	10	18	24	17	25	15	18
Applied physics	na	71	102	99	124						
Atomic/molecular/chemical physics	106	100	100	110	81	82	74	82	87	90	111
Biophysics (Physics)	na	54	72	96	124						
Condensed matter/low temperature physics	328	314	307	279	295	298	273	277	314	335	360
Particle (elementary) physics	171	173	169	147	121	154	134	163	188	200	203
Fluids physics	24	26	23	10	8	15	9	na	na	na	na
Nuclear physics	106	92	77	74	80	76	67	74	69	86	74
Optics/phototonics	123	105	98	117	107	107	95	120	144	144	153
Plasma/fusion physics	38	55	49	38	39	29	31	36	53	44	48
Polymer physics	19	24	28	21	18	22	13	18	29	23	29
Physics, general	254	190	202	224	207	171	170	141	128	145	187
Physics, other	212	281	202	174	232	151	190	131	120	91	123
Social sciences and psychology	7,285	7,289	7,291	7,338	7,025	6,826	7,003	7,042	7,047	7,121	7,197
Psychology	3,557	3,673	3,668	3,615	3,401	3,206	3,276	3,326	3,323	3,258	3,292
Clinical psychology	1,255	1,344	1,442	1,353	1,234	1,221	1,192	1,218	1,156	1,119	1,160
Cognitive psychology and psycholinguistics	167	113	143	140	141	121	132	145	147	181	175
Comparative psychology	6	6	11	7	5	2	4	6	5	5	7
Counseling	487	448	460	475	476	472	435	512	466	409	415
Developmental and child psychology	215	266	193	203	195	174	178	186	224	203	198
Educational psychology (psychology)	61	61	64	97	48	54	52	75	81	59	71
Experimental psychology	146	149	139	133	134	112	119	88	121	126	126
Family psychology	63	51	56	54	45	67	63	32	25	21	45
Human development and family studies	126	119	135	147	137	139	149	144	172	182	126
Industrial and organizational	187	189	158	188	174	154	161	157	186	174	187
Personality psychology	26	25	16	23	11	17	17	18	14	30	27
Physiological/psychobiology psychology	77	92	87	89	92	88	86	84	85	94	95
Psychometrics and quantitative psychology	17	15	14	8	10	13	11	29	22	20	35
Psychometrics	11	9	15	13	2	9	7	na	na	na	na
School psychology	84	106	121	99	101	88	102	87	109	123	123
Social psychology	181	186	176	207	198	180	203	163	183	172	199
Psychology, general	318	300	234	237	224	143	218	218	184	207	193
Psychology, other	130	194	204	142	174	152	147	164	143	133	110
Social sciences	3,728	3,616	3,623	3,723	3,624	3,620	3,727	3,716	3,724	3,863	3,905
Anthropology	434	425	462	446	410	496	472	531	456	472	511
Area/ethnic/cultural/gender studies	10	14	11	14	19	25	12	18	6	23	97

TABLE S-47. Doctorate recipients, by subfield of study: 199	7–2007
Subfield of study	

ubfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Criminal justice and corrections	na	41									
Criminology	49	55	51	66	62	56	77	69	97	100	49
Demography/population studies	24	30	28	20	12	20	15	19	20	24	15
Econometrics	31	25	15	15	13	14	23	18	30	33	30
Economics	999	976	911	933	914	894	909	941	1,031	997	964
Geography	149	153	144	197	186	197	167	190	195	205	200
International relations/affairs	88	96	119	77	91	83	98	99	106	115	127
Linguistics	244	220	251	230	230	193	224	254	212	252	220
Political science and government	665	662	655	669	658	606	661	587	619	615	588
Public policy analysis	127	96	125	137	140	146	145	145	161	172	211
Sociology	577	549	544	617	566	547	597	580	536	578	576
Statistics	56	61	72	60	49	54	48	31	22	22	29
Urban affairs/studies	92	77	57	78	80	92	78	85	81	84	41
Urban/city, community and regional planning	na	70									
Social sciences, general	26	30	25	37	26	33	28	32	33	45	39
Social sciences, other	157	147	153	127	168	164	173	117	119	126	9
Engineering	6,115	5,922	5,330	5,323	5,510	5,081	5,281	5,777	6,427	7,185	7,744
Aerospace/aeronautical engineering	274	241	206	214	202	209	200	201	219	238	267
Chemical and related engineering	767	777	674	726	730	705	648	726	875	891	92
Chemical engineering	662	670	576	619	636	607	568	638	774	799	807
Petroleum engineering	51	48	45	45	37	45	36	34	50	47	40
Polymer and plastics engineering	54	59	53	62	57	53	44	54	51	45	74
Civil and related engineering	655	650	584	556	595	630	674	673	758	804	86
Civil engineering	592	587	506	480	501	540	552	547	622	655	70
Environmental health engineering	63	63	78	76	94	90	122	126	136	149	164
Electrical and related engineering	1,720	1,595	1,478	1,544	1,579	1,393	1,466	1,651	1,851	2,133	2,409
Communications engineering	33	40	39	42	47	22	36	34	27	26	3
Computer engineering	227	210	203	172	186	160	192	228	277	321	40
Electrical, electronics and communications engineering	1,460	1,345	1,236	1,330	1,346	1,211	1,238	1,389	1,547	1,786	1,968
Industrial and manufacturing engineering	246	229	211	176	206	230	214	217	221	234	280
Materials/metallurgical engineering	582	565	469	451	497	396	475	510	540	625	679
Ceramic sciences engineering	39	24	33	22	17	13	18	14	14	8	13
Materials science engineering	483	482	393	404	448	364	438	474	493	583	648
Metallurgical engineering	60	59	43	25	32	19	19	22	33	34	18
Mechanical and related engineering	1,022	1,022	855	864	953	827	814	852	978	1,146	1,128
Engineering mechanics	93	86	69	57	75	56	62	98	86	102	56
Mechanical engineering	929	936	786	807	878	771	752	754	892	1,044	1,072
Other engineering	849	843	853	792	748	691	790	947	985	1,114	1,19
Agricultural engineering	79	74	59	60	52	50	54	60	47	53	49
Bioengineering and biomedical engineering	211	208	245	251	233	246	281	369	417	525	638

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

ubfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	200
Engineering management and administration	na	34									
Engineering physics	24	15	28	26	22	16	28	28	27	35	20
Engineering science	45	49	49	34	53	31	39	58	43	44	4
Mining and mineral engineering	33	21	18	11	10	8	14	9	12	16	10
Nuclear engineering	102	94	76	98	76	64	75	59	72	67	7
Ocean engineering	34	29	16	18	28	23	12	21	18	15	1
Operations research	74	62	67	51	55	66	81	72	87	89	9
Systems engineering	49	68	42	34	46	45	44	58	58	79	7
Engineering, general	51	29	40	43	25	20	19	29	53	60	3
Engineering, other	147	194	213	166	148	122	143	184	151	131	9
Education	6,577	6,569	6,551	6,437	6,349	6,503	6,643	6,633	6,225	6,120	6,44
Education administration	2,050	2,066	2,044	2,031	2,070	2,346	2,356	2,340	2,165	2,050	2,15
Educational administration and supervision	1,020	950	895	814	840	791	774	741	727	629	66
Educational leadership	1,030	1,116	1,149	1,217	1,230	1,555	1,582	1,599	1,438	1,421	1,49
Education research	2,695	2,584	2,732	2,668	2,637	2,776	2,718	2,805	2,674	2,750	2,66
Counseling education/counseling and guidance	207	271	260	214	211	258	219	182	178	201	2
Curriculum and instruction	920	884	994	968	888	991	1,001	973	986	1,004	8
Educational assessment/testing/measurement	30	35	39	45	44	31	47	57	56	58	
Educational psychology (education)	359	327	299	278	283	302	285	262	249	255	2
Educational statistics/research methods	58	56	57	56	65	67	62	64	59	72	
Educational/instructional media design	92	91	123	137	141	172	128	193	124	156	1
Higher education/evaluation and research	503	432	465	438	516	446	490	538	515	492	5
School psychology	118	112	108	137	119	169	124	113	112	115	1
Social/philosophical foundations of education	138	129	125	135	141	127	146	135	154	160	1
Special education	270	247	262	260	229	213	216	288	241	237	2
Teacher education	291	342	293	261	296	262	242	270	263	250	2
Adult and continuing teacher education	165	172	153	151	169	138	119	143	151	116	1
Elementary teacher education	56	62	60	53	55	52	34	63	54	37	
Pre-elementary/early childhood teacher education	43	54	49	34	50	51	70	38	36	57	
Secondary teacher education	27	54	31	23	22	21	19	26	22	40	
Teaching fields	919	954	893	824	723	686	714	758	663	707	8
Agricultural education	38	25	38	22	22	28	25	18	25	21	
Art education	30	46	47	31	31	30	34	38	34	35	
Business education	26	31	45	37	19	14	6	7	7	9	
English education	62	53	65	44	56	53	47	45	55	48	
Family and consumer/human science	13	8	10	14	8	9	4	15	11	13	
Foreign languages education	47	73	62	43	47	41	46	62	80	60	
Health education	58	70	58	71	64	39	54	42	44	43	
Mathematics education	93	115	101	91	81	89	80	91	89	98	1
Music education	101	93	79	79	63	80	74	94	61	83	
Nursing education	21	14	22	11	5	7	8	10	10	7	
Physical education and coaching	109	109	115	83	81	72	75	68	48	49	

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

ubfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	200
Reading education	70	76	68	89	72	66	60	86	74	68	10
Science education	77	110	58	60	72	60	69	86	67	81	10
Social science education	26	15	9	35	12	10	10	21	15	20	2
Technical education	32	17	27	20	10	23	24	na	na	na	1
Technology and industrial arts education	19	30	21	21	16	7	13	na	na	na	
Trade and industrial education	16	14	14	12	7	5	5	18	6	14	
Teacher education and professional development, other	81	55	54	61	57	53	80	57	37	58	
Other education	622	623	589	653	623	433	613	460	460	363	4
Education, general	336	232	196	251	255	155	312	188	218	134	2
Education, other	286	391	393	402	368	278	301	272	242	229	1
Humanities	5,190	5,295	5,210	5,404	5,385	5,221	5,193	5,209	5,141	5,327	5,1
Foreign languages and literature	652	643	626	642	620	627	623	587	607	615	6
Arabic	4	9	12	15	6	5	4	7	5	10	
Chinese	23	19	27	21	16	22	24	15	22	19	
French	150	137	148	143	141	121	102	124	113	111	
German	82	106	90	84	84	69	100	56	76	75	
Hebrew	7	8	4	11	6	8	5	na	na	na	
Italian	23	33	20	16	16	23	34	39	19	30	
Japanese	19	11	10	18	17	15	20	14	23	26	
Russian	39	43	25	29	27	26	28	25	21	28	
Slavic (other than Russian)	9	15	17	14	12	19	11	8	13	11	
Spanish	249	207	201	218	233	245	239	241	240	232	
Other languages and literature	47	55	72	73	62	74	56	58	75	73	
History	965	990	1,010	1,061	1,031	1,031	941	975	924	973	
African history	na	na	na	na	na	na	na	21	18	27	
American history (U.S. and Canada)	373	408	418	443	427	423	416	403	372	391	
Asian history	54	70	68	51	51	66	66	66	64	80	
European history	245	230	235	243	247	232	190	221	211	216	
History, science and technology and society	35	44	50	42	40	48	46	48	43	56	
Latin American history	na	na	na	na	na	na	na	47	45	49	
Middle/Near East studies	na	na	na	na	na	na	na	na	na	na	
History, general	82	86	75 464	102	75 404	79	72	55	77	59	
History, other	176	152	164	180	191	183	151	114	94	95	
Letters	1,550	1,600	1,516	1,612	1,493	1,455	1,416	1,407	1,389	1,457	1,
American literature (U.S. and Canada)	408	389	372	460	385	369	362	351	406	382	
Classics	53	85	77	64	56	57	75	70	61	78	
Comparative literature	181	164	166	187	204	175	165	175	180	165	
Creative writing	na	na	na	na	na	na	na	na	na	na	
English language	152	146	133	66	124	86	132	156	137	136	
English literature (British and Commonwealth)	534	543	517	544	469	520	436	426	416	437	
Folklore	na	na	na	na	na	na	na	22	18	14	
Speech and rhetorical studies	139	169	150	143	127	137	151	128	98	142	

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

Subfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Letters, general	23	22	19	55	34	31	27	16	19	21	15
Letters, other	60	82	82	93	94	80	68	63	54	82	39
Other humanities	2,023	2,062	2,058	2,089	2,241	2,108	2,213	2,240	2,221	2,282	2,207
American/U.S. studies	84	100	98	113	127	97	94	115	104	107	110
Archeology	35	34	26	36	40	26	33	34	44	39	58
Art history/criticism/conservation	188	221	188	228	225	218	254	248	211	247	228
Bible/biblical studies	na	42									
Drama/theater arts	116	92	99	82	104	93	86	93	88	85	107
Music	727	696	768	746	793	766	873	848	907	921	412
Music performance	na	226									
Music theory and composition	na	55									
Musicology/ethnomusicology	na	39									
Music, other	na	99									
Philosophy	444	410	389	364	415	363	392	365	355	370	411
Religion/religious studies	304	327	335	348	340	354	304	387	370	381	327
Humanities, general	25	23	24	40	30	19	27	18	25	23	34
Humanities, other	100	159	131	132	167	172	150	132	117	109	59
Other fields	2,370	2,281	2,287	2,257	2,235	2,311	2,300	2,596	2,540	2,700	2,958
Business management/administration	1,245	1,175	1,109	1,065	1,064	1,113	1,036	1,254	1,170	1,311	1,506
Accounting	150	154	154	111	115	113	106	130	130	138	170
Banking/financial support services	69	83	74	72	71	76	80	106	83	104	5
Business administration and management	426	348	315	321	348	346	340	369	298	355	326
Business/managerial economics	48	57	42	52	50	39	44	59	55	45	31
Finance	na	86									
Human resources development	na	87	100	93	87						
International business/trade/commerce	39	33	34	32	29	25	44	31	28	31	31
Management information systems/business statistics	100	87	83	85	100	91	86	94	95	137	142
Marketing management and research	153	142	127	141	115	132	111	134	143	164	196
Operations research	45	57	52	61	41	36	26	52	50	65	66
Organizational behavior	123	105	101	99	118	173	113	125	120	111	183
Business management/administration, general	28	38	49	36	20	34	18	24	27	27	105
Business management/administration, other	64	71	78	55	57	48	68	43	41	41	78
Communication	331	373	379	389	390	397	415	450	487	510	555
Communication research	51	52	50	53	60	63	63	60	63	80	98
Communication theory	40	48	47	39	40	43	42	49	54	47	30
Mass communication/media studies	117	142	153	154	154	156	161	187	214	229	188
Film, radio, TV and digital communication	na	31									
Communication, general	73	62	69	77	78	70	89	75	76	101	119
Communication, other	50	69	60	66	58	65	60	79	80	53	89
Fields not elsewhere classified	793	729	798	799	781	801	849	892	883	871	876
Architecture/environmental design	66	52	65	61	66	67	69	66	76	92	96
Family/consumer science/human science	36	18	23	23	19	24	21	44	51	52	39

TABLE S-47. Doctorate recipients, by subfield of study: 1997–2007

Subfield of study	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Law	27	31	37	41	35	50	52	56	41	76	79
Library science	40	34	39	45	41	32	42	23	30	30	36
Parks/sports/recreation/leisure/fitness	24	37	29	45	41	52	38	82	72	59	59
Public administration	95	104	117	103	96	103	121	116	104	98	112
Social work	247	235	225	257	260	238	273	304	323	308	287
Theology/religious education	179	158	161	171	172	173	174	150	150	114	104
Professional fields, general	4	0	9	3	8	7	4	na	na	na	na
Other fields, not elsewhere classified	75	60	93	50	43	55	55	51	36	42	64
Unknown field	1	4	1	4	0	0	0	0	0	8	21

na = not applicable (i.e., the field was not on the questionnaire's specialties list for that year).

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

^a This field was removed from the taxonomy in 2007. Graduates who indicated this field in 2007 are represented in the counts for Chemistry, other.

TABLE S-48. Doctorate recipients, by race/ethnicity and citizenship: 1997-2007

					Yea	r of doctora	ite				
Race/ethnicity and citizenship	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Total all doctorates	42,539	42,638	41,097	41,366	40,738	40,025	40,758	42,118	43,381	45,615	48,112
U.S. citizens and permanent residents	31,086	31,196	30,304	29,938	28,875	27,711	28,146	28,010	27,925	28,746	29,438
Temporary visa holders	9,194	9,462	9,060	9,666	9,812	9,747	10,595	11,622	12,831	14,155	15,127
Unknown citizenship	2,259	1,980	1,733	1,762	2,051	2,567	2,017	2,486	2,625	2,714	3,547
American Indian ^a	166	189	213	168	164	155	142	135	142	131	151
U.S. citizens and permanent residents	166	189	213	168	152	150	137	131	140	120	143
Temporary visa holders ^b	0	0	0	0	12	5	5	4	2	11	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	D
Asian ^c	9,010	8,569	7,996	8,062	8,119	7,902	8,296	9,077	10,244	11,738	12,439
U.S. citizens and permanent residents	3,110	2,729	2,497	2,275	2,190	2,119	2,046	2,061	2,185	2,387	2,330
Temporary visa holders	5,866	5,809	5,472	5,765	5,899	5,744	6,220	6,965	8,010	9,272	10,023
Unknown citizenship	34	31	27	22	30	39	30	51	49	79	86
Black	1,764	1,912	2,053	2,098	2,013	2,034	2,099	2,385	2,188	2,212	2,463
U.S. citizens and permanent residents	1,475	1,603	1,764	1,750	1,731	1,756	1,797	1,987	1,798	1,788	1,956
Temporary visa holders	276	297	281	335	265	255	266	357	384	387	479
Unknown citizenship	13	12	8	13	17	23	36	41	6	37	28
Hispanic ^d	1,696	1,882	1,901	1,963	1,912	2,029	2,222	2,030	2,281	2,308	2,538
U.S. citizens and permanent residents	1,199	1,331	1,323	1,310	1,266	1,370	1,430	1,301	1,431	1,511	1,650
Temporary visa holders	484	543	561	646	621	648	781	712	843	781	866
Unknown citizenship	13	8	17	7	25	11	11	17	7	16	22
White	26,258	26,791	26,427	26,401	25,488	24,378	24,511	24,643	24,754	25,439	25,964
U.S. citizens and permanent residents	23,966	24,288	23,903	23,715	22,683	21,442	21,563	21,426	21,483	21,944	22,341
Temporary visa holders	2,224	2,404	2,484	2,614	2,654	2,692	2,826	3,047	3,170	3,288	3,365
Unknown citizenship	68	99	40	72	151	244	122	170	101	207	258
Multi-race	na	na	na	na	336	307	409	424	441	531	545
U.S. citizens and permanent residents	na	na	na	na	306	274	365	387	399	457	508
Temporary visa holders	na	na	na	na	28	33	43	35	42	72	33
Unknown citizenship	na	na	na	na	2	0	1	2	0	2	4
Other/unknown ^e	3,645	3,295	2,507	2,674	2,706	3,220	3,079	3,424	3,331	3,256	4,012
U.S. citizens and permanent residents	1,170	1,056	604	720	547	600	808	717	489	539	510
Temporary visa holders	344	409	262	306	333	370	454	502	380	344	D
Unknown citizenship	2,131	1,830	1,641	1,648	1,826	2,250	1,817	2,205	2,462	2,373	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race and ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

TABLE S-49. Male doctorate recipients, by race/ethnicity and citizenship: 1997-2007

Race/ethnicity and citizenship	Year of doctorate										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Total all doctorates	24,944	24,630	23,437	23,163	22,777	21,808	22,255	22,964	23,735	25,019	26,176
U.S. citizens and permanent residents	16,881	16,562	15,899	15,293	14,674	13,761	13,910	13,750	13,573	14,138	14,211
Temporary visa holders	6,976	6,986	6,633	6,856	7,010	6,765	7,256	7,909	8,749	9,370	9,995
Unknown citizenship	1,087	1,082	905	1,014	1,093	1,282	1,089	1,305	1,413	1,511	1,970
American Indian ^a	79	104	96	76	77	72	56	61	60	62	69
U.S. citizens and permanent residents	79	104	96	76	69	69	53	58	58	55	64
Temporary visa holders ^b	0	0	0	0	8	3	3	3	2	7	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	D
Asian ^c	6,426	6,034	5,529	5,352	5,437	5,162	5,453	5,831	6,565	7,374	7,829
U.S. citizens and permanent residents	1,884	1,641	1,477	1,242	1,187	1,128	1,079	1,004	1,073	1,142	1,066
Temporary visa holders	4,522	4,376	4,032	4,094	4,228	4,010	4,357	4,792	5,464	6,184	6,709
Unknown citizenship	20	17	20	16	22	24	17	35	28	48	54
Black	860	819	909	882	870	857	836	976	913	930	1,038
U.S. citizens and permanent residents	636	609	700	643	676	676	651	718	661	657	705
Temporary visa holders	212	203	204	234	186	176	177	240	248	261	317
Unknown citizenship	12	7	5	5	8	5	8	18	4	12	16
Hispanic ^d	981	1,062	991	1,069	1,021	1,041	1,171	1,090	1,193	1,205	1,307
U.S. citizens and permanent residents	625	685	578	609	568	600	666	596	606	687	735
Temporary visa holders	349	374	405	457	445	435	501	487	585	511	560
Unknown citizenship	7	3	8	3	8	6	4	7	2	7	12
White	14,665	14,686	14,506	14,206	13,685	12,843	12,791	12,848	12,953	13,330	13,397
U.S. citizens and permanent residents	12,996	12,894	12,683	12,311	11,705	10,829	10,832	10,779	10,736	11,089	11,128
Temporary visa holders	1,633	1,739	1,805	1,861	1,890	1,862	1,904	2,000	2,157	2,141	2,141
Unknown citizenship	36	53	18	34	90	152	55	69	60	100	128
Multi-race	na	na	na	na	158	133	190	195	195	250	236
U.S. citizens and permanent residents	na	na	na	na	139	112	164	170	167	202	211
Temporary visa holders	na	na	na	na	19	21	25	24	28	47	22
Unknown citizenship	na	na	na	na	0	0	1	1	0	1	3
Other/unknown ^e	1,933	1,925	1,406	1,578	1,529	1,700	1,758	1,963	1,856	1,868	2,300
U.S. citizens and permanent residents	661	629	365	412	330	347	465	425	272	306	302
Temporary visa holders	260	294	187	210	234	258	289	363	265	219	D
Unknown citizenship	1,012	1,002	854	956	965	1,095	1,004	1,175	1,319	1,343	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

^e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race/ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

TABLE S-50. Female doctorate recipients, by race/ethnicity and citizenship: 1997–2007

Race/ethnicity and citizenship	Year of doctorate										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Total all doctorates	17,243	17,848	17,488	18,130	17,886	18,136	18,503	19,152	19,580	20,554	21,884
U.S. citizens and permanent residents	14,172	14,606	14,405	14,640	14,201	13,949	14,236	14,260	14,350	14,608	15,226
Temporary visa holders	2,203	2,456	2,423	2,809	2,801	2,977	3,339	3,713	4,078	4,785	5,130
Unknown citizenship	868	786	660	681	884	1,210	928	1,179	1,152	1,161	1,528
American Indian ^a	87	85	117	92	87	83	86	74	82	69	82
U.S. citizens and permanent residents	87	85	117	92	83	81	84	73	82	65	79
Temporary visa holders ^b	0	0	0	0	4	2	2	1	0	4	D
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	D
Asian ^c	2,577	2,519	2,466	2,710	2,682	2,740	2,843	3,246	3,677	4,363	4,607
U.S. citizens and permanent residents	1,225	1,080	1,020	1,033	1,003	991	967	1,057	1,111	1,245	1,264
Temporary visa holders	1,338	1,426	1,439	1,671	1,671	1,734	1,863	2,173	2,545	3,088	3,312
Unknown citizenship	14	13	7	6	8	15	13	16	21	30	31
Black	904	1,091	1,144	1,216	1,143	1,177	1,263	1,409	1,275	1,281	1,425
U.S. citizens and permanent residents	839	993	1,064	1,107	1,055	1,080	1,146	1,269	1,137	1,131	1,251
Temporary visa holders	64	93	77	101	79	79	89	117	136	126	162
Unknown citizenship	1	5	3	8	9	18	28	23	2	24	12
Hispanic ^d	715	818	910	893	891	988	1,051	940	1,088	1,103	1,231
U.S. citizens and permanent residents	574	645	745	700	698	770	764	705	825	824	915
Temporary visa holders	135	168	156	189	176	213	280	225	258	270	306
Unknown citizenship	6	5	9	4	17	5	7	10	5	9	10
White	11,587	12,100	11,921	12,194	11,803	11,534	11,720	11,795	11,801	12,109	12,567
U.S. citizens and permanent residents	10,967	11,393	11,220	11,404	10,978	10,612	10,731	10,647	10,747	10,855	11,213
Temporary visa holders	588	661	679	753	764	830	922	1,047	1,013	1,147	1,224
Unknown citizenship	32	46	22	37	61	92	67	101	41	107	130
Multi-race	na	na	na	na	178	174	219	229	245	281	309
U.S. citizens and permanent residents	na	na	na	na	167	162	201	217	231	255	297
Temporary visa holders	na	na	na	na	9	12	18	11	14	25	11
Unknown citizenship	na	na	na	na	2	0	0	1	0	1	1
Other/unknown ^e	1,373	1,235	930	1,025	1,102	1,440	1,321	1,459	1,412	1,348	1,663
U.S. citizens and permanent residents	480	410	239	304	217	253	343	292	217	233	207
Temporary visa holders	78	108	72	95	98	107	165	139	112	125	D
Unknown citizenship	815	717	619	626	787	1,080	813	1,028	1,083	990	D

D = suppressed to avoid disclosure of confidential information. na = not applicable; respondents were instructed to indicate only one race.

^a Includes Alaska Natives.

^b In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

^c Includes Native Hawaiians or Other Pacific Islanders through 2000, but excludes them in 2001–08.

d Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

e Prior to 2001 this category only included non-Hispanic doctorate recipients who did not indicate their race, respondents selecting more than one race, and doctorate recipients with unknown race/ethnicity; in years since 2001 this category includes non-Hispanic doctorate recipients who did not indicate their race, Native Hawaiian or Other Pacific Islanders, and doctorate recipients with unknown race and ethnicity.

Appendix A. Technical Notes

Data presented in this report were collected by the Survey of Earned Doctorates (SED). The survey is sponsored by six federal agencies: the National Science Foundation (NSF), National Institutes of Health (NIH), U.S. Department of Education (USED), U.S. Department of Agriculture (USDA), National Endowment for the Humanities (NEH), and National Aeronautics and Space Administration (NASA). The technical notes presented here apply to both the 2007 and 2008 SED survey cycles unless specified otherwise.

Survey Eligibility

The SED collects information only on research doctorate recipients. Research doctoral degrees are oriented toward preparing students to make original intellectual contributions in a field of study. Research doctorates require the completion of a dissertation or equivalent project and are not primarily intended for the practice of a profession. The SED recognized 20 distinct types of research doctorates in 2007 and 18 in 2008 (table A-1). Professional degrees, such as the MD, DDS, DVM, JD, PsyD, and DMin, are not covered by the survey.

The vast majority of research doctoral degrees are doctors of philosophy (PhD). Of the 48,802 new research doctorates granted in 2008, 93% were PhDs; PhDs were 91% of research doctorates in 2007 (table A-2). The doctor of music, DM, and the doctor of industrial technology, DIT, were both completely dropped from the SED in 2008, contributing to the increase in the percentage of PhDs from 2007 to 2008. The next most frequently occurring type of research doctorate was the doctor of education, EdD, which accounted for 6% in both 2008 and 2007. No other type of doctoral degree accounted for as much as one half of one percent of the new research doctorates in 2007 or 2008 with the exception of the doctor of musical arts, which accounted for over 1% in 2007.

Survey Universe

The population eligible for the 2008 survey consisted of all individuals who received a research doctorate from a U.S. academic institution in the 12-month period ending 30 June 2008. The total universe consisted of 48,802 persons in more than 400 institutions that conferred research doctorates in

TABLE A-1. Types of research doctoral degrees recognized by the Survey of Earned Doctorates: 2007 and 2008

	2007	2008				
Abbreviation	Degree	Abbreviation	Degree			
PhD	Doctor of Philosophy	PhD	Doctor of Philosophy			
DA	Doctor of Arts	DA	Doctor of Arts			
DBA	Doctor of Business Administration	DBA	Doctor of Business Administration			
DDes	Doctor of Design	DDes	Doctor of Design			
DEng/DESc/DES	Doctor of Engineering/Engineering Science	DEng/DESc/DES	Doctor of Engineering/Engineering Science			
DFA	Doctor of Fine Arts	DFA	Doctor of Fine Arts			
DHL	Doctor of Hebrew Letters	DHL	Doctor of Hebrew Letters			
DIT	Doctor of Industrial Technology	DMA	Doctor of Musical Arts			
DM	Doctor of Music	DME	Doctor of Music Education			
DMA	Doctor of Musical Arts	DML	Doctor of Modern Languages			
DME	Doctor of Music Education	DNSc	Doctor of Nursing Science			
DML	Doctor of Modern Languages	DPH	Doctor of Public Health			
DNSc	Doctor of Nursing Science	DSc/ScD	Doctor of Science			
DPH	Doctor of Public Health	EdD	Doctor of Education			
DSc/ScD	Doctor of Science	JCD	Doctor of Canon Law			
EdD	Doctor of Education	JSD/SJD	Doctor of Juridical Science			
JCD	Doctor of Canon Law	STD	Doctor of Sacred Theology			
JSD/SJD	Doctor of Juridical Science	ThD	Doctor of Theology			
STD	Doctor of Sacred Theology					
ThD	Doctor of Theology					

TABLE A-2. Research degrees included in the Survey of Earned Doctorates: 2004-08

		200	04	200	05	200	06	20	07	200	08
Research degree	Degree title	Number	Percent								
All research doctorates	All research doctorates	42,118	100.0	43,381	100.0	45,615	100.0	48,112	100.0	48,802	100.0
PhD	Doctor of Philosophy	37,372	88.7	39,140	90.2	41,528	91.0	43,962	91.4	45,341	92.9
EdD	Doctor of Education	3,389	8.0	3,025	7.0	2,808	6.2	2,942	6.1	2,948	6.0
DSc/ScD	Doctor of Science	145	0.3	138	0.3	165	0.4	180	0.4	143	0.3
Deng/DESc/DES	Doctor of Engineering/Doctor of										
	Engineering Science	32	0.1	37	0.1	26	0.1	29	0.1	20	0.0
DA	Doctor of Arts	70	0.2	56	0.1	59	0.1	65	0.1	15	0.0
DBA	Doctor of Business Administration	192	0.5	83	0.2	93	0.2	68	0.1	69	0.1
DMA	Doctor of Musical Arts	579	1.4	612	1.4	634	1.4	590	1.2	124	0.3
DM	Doctor of Music	50	0.1	54	0.1	54	0.1	37	0.1	ne	ne
DSW	Doctor of Social Work	9	0.0	3	0.0	ne	ne	ne	ne	ne	ne
DDES	Doctor of Design	7	0.0	7	0.0	12	0.0	13	0.0	4	0.0
DPA	Doctor of Public Administration	27	0.1	16	0.0	ne	ne	ne	ne	ne	ne
DPE	Doctor of Physical Education	4	0.0	4	0.0	ne	ne	ne	ne	ne	ne
DPH	Doctor of Public Health	100	0.2	94	0.2	90	0.2	89	0.2	17	0.0
DCM	Doctor of Church Music	0	0.0	ne	ne	ne	ne	ne	ne	ne	ne
DHL	Doctor of Hebrew Letters	1	0.0	2	0.0	2	0.0	1	0.0	0	0.0
DIT	Doctor of Industrial Technology	2	0.0	1	0.0	2	0.0	0	0.0	ne	ne
DME	Doctor of Music Education	0	0.0	0	0.0	3	0.0	0	0.0	2	0.0
DML	Doctor of Modern Languages	2	0.0	2	0.0	3	0.0	3	0.0	6	0.0
DNSC	Doctor of Nursing Science	63	0.1	67	0.2	47	0.1	50	0.1	27	0.1
THD	Doctor of Theology	14	0.0	7	0.0	16	0.0	8	0.0	17	0.0
DFA	Doctor of Fine Arts	0	0.0	1	0.0	3	0.0	3	0.0	3	0.0
JSD/SJD	Doctor of Juridical Science	39	0.1	30	0.1	51	0.1	59	0.1	60	0.1
STD	Doctor of Sacred Theology	1	0.0	0	0.0	0	0.0	3	0.0	2	0.0
JCD	Doctor of Canon Law	3	0.0	0	0.0	0	0.0	3	0.0	0	0.0
	All other research doctorates ^a	17	0.0	2	0.0	19	0.0	7	0.0	4	0.0

ne = not eligible.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2008 Survey of Earned Doctorates.

2008. The 2007 total universe consisted of 48,112 individuals who received a research doctorate from a U.S institution in the 12-month period ending 30 June 2007.

Data Collection

Survey instruments were mailed to institutional coordinators in the graduate schools. The institutional coordinators distributed the survey forms to individuals receiving a research doctorate, collected the forms, and returned them to the survey contractor for editing/processing. Additional modes of data collection used were Web and telephone versions of the survey and mail follow-up of missing critical items.

A small but growing number of research doctoral degrees are awarded as a part of a joint doctoral program (i.e., a research doctorate recipient studied at more than one institution in pursuit of the doctorate degree). In these instances, the survey contractor relies on the information provided by the doctorate-granting institution to attribute the doctorate to the appropriate doctorate-granting institution.

The survey collects a complete college education history. Survey staff use the coding manual Mapping the World of Education: The Comparative Database System, augmented with over 3,000 additional institutions from the Europa World of Learning, to code the undergraduate institutions of respondents from foreign countries, about one-third of U.S. doctorate recipients.1

a Includes doctorates awarded that were determined to be ineligible for the SED after the doctoral program was begun but before doctorate was granted.

¹ U.S. Department of Education. 1996. Mapping the World of Education: The Comparative Database System (CDS). 3 volumes. Arlington, VA: National Science Foundation. Available at http://www.nsf.gov/statistics/ mapping/. Routledge-Taylor & Francis Group. 2006-. Europa World of Learning. Serial and online database. London.

Until 1997 the survey was conducted by the National Research Council of the National Academy of Sciences under contract to the National Science Foundation (NSF). The National Opinion Research Center at the University of Chicago (NORC) currently conducts the survey under contract to NSF.

Survey Response Rates

In 2008, 92% of the 48,802 doctorate recipients completed the survey instrument (table A-3). This percentage is referred to as the self-report rate in this analysis. Limited records (field of study, doctoral institution, and sex) are constructed for nonrespondents from administrative lists of the university—commencement programs, graduation lists, and other public records—and are included in the reported total of 48,802 doctorate recipients for 2008.

Nonresponse was concentrated in certain institutions: 1% of the 421 doctorate-granting institutions accounted for 19% of the total nonrespondents, and the 10% of institutions with the highest nonresponse accounted for 65% of the total nonrespondents.

Counts for previous years were corrected by the addition of data from surveys received after the close of data collection for a given year.

TABLE A-3. Survey response rates, 1973-2008

Year	Self-report rate	Year	Self-report rate
1973	88.5	1991	94.6
1974	83.9	1992	95.1
1975	90.7	1993	94.7
1976	91.2	1994	94.6
1977	91.4	1995	94.2
1978	91.0	1996	93.0
1979	91.0	1997	91.6
1980	96.2	1998	91.9
1981	95.7	1999	91.9
1982	95.3	2000	92.4
1983	95.5	2001	92.7
1984	95.1	2002	91.3
1985	94.8	2003	91.6
1986	93.5	2004	91.3
1987	93.1	2005	92.1
1988	92.9	2006	92.3
1989	92.3	2007	91.6
1990	93.6	2008	92.1

NOTE: The rates for 1973–2007 include late responses. The rate for 2008 may increase slightly in the next year if additional questionnaires are received after survey closure.

SOURCE: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates.

Item nonresponse rates in 2007 and 2008 for the main SED demographic variables ranged from 0.1% for sex to 8.7% for postgraduation location. No imputation was performed for missing data items.

Item nonresponse rates: 2007 and 2008

(Percent)

Country of citizenship

Postgraduation location

 Key variable
 2007
 2008

 Sex
 99.9
 99.9

 Citizenship
 92.6
 94.3

 Race/ethnicity
 92.8
 93.4

92.4

91.3

94.0

91.8

Table A-4 shows item response rates for 1998–2008. In this analysis, "response rate" is the percentage of cases providing data on the item divided by the universe of doctorate recipients eligible to answer that item. On most items, the full universe of doctorate recipients establishes the universe of eligible respondents. However, on a number of items, only a subset of the full universe is eligible to answer the item (see clarifying notes in table A-4). The numbers and percentages in the tables and figures of this report are based on the number of respondents eligible to answer the applicable survey items. For cross-tabulations, the response rate for a given tabulation will be no greater than the lowest response rate for the items involved in the tabulation.

Disclosure Protection

Two strategies for protecting against the statistical disclosure of confidential information provided by SED respondents are used in this report.

In the first, used since 2004, data cells having values below a predetermined threshold are deemed to be sensitive to potential disclosure and are suppressed. A suppression symbol replaces the cell value. A suppressed cell may not provide sufficient protection in tables that include marginal totals, as the suppressed data cell values could be computed from the values of other cells in the table. In such cases additional (complementary) suppressions of above-threshold data cells may be necessary.

A second disclosure protection strategy, field aggregation, is being used for the first time in this edition of the Summary Report. This strategy was applied to detailed data tables 36 and 37, which present counts of doctorate recipients classified by fine fields of degree and either sex or race/ethnicity. Because some fine fields of degree award relatively

TABLE A-4. Item response rates: 1998–2008

Variable name	Variable description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
AMERIND	American Indian/Alaska Native race indicator	90.8	92.5	92.5	93.9	92.1	93.0	92.1	92.5	93.3	90.4	91.1
ASIAN	Asian race indicator	90.8	92.5	92.5	93.9	92.1	93.0	92.1	92.5	93.3	90.4	91.1
AUDIDIS	Deaf/hearing disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
BAFIELD	Bachelor's field	84.8	85.1	86.9	87.5	86.6	86.6	87.7	87.0	88.7	87.4	87.7
BAINST	Bachelor's institution	91.2	92.5	91.2	93.0	91.9	92.6	91.9	93.1	93.0	91.6	92.2
BAMONTH	Month of bachelor's	83.0	83.7	85.1	85.3	84.4	84.1	84.0	84.1	85.5	86.0	87.1
BANONE ^a	No bachelor's/no master's indicator	8.1	8.0	2.7	9.5	10.1	9.5	12.2	11.6	11.6	12.2	12.7
BAPLACE	Place of baccalaureate	91.2	92.5	91.2	93.0	91.9	92.6	91.9	93.2	93.2	91.2	92.2
BAYEAR	Year of bachelor's	90.7	92.3	90.5	92.5	91.3	92.0	89.5	90.6	91.2	91.4	92.2
BIRTHMO	Month of birth	93.1	95.2	95.3	94.7	93.4	94.0	92.5	93.0	93.2	92.1	93.0
BIRTHPL	Place of birth	93.8	94.3	94.3	93.7	92.4	93.5	92.6	94.8	95.4	92.4	93.4
BIRTHYR	Year of birth	92.9	95.2	95.4	94.8	93.6	94.4	92.9	93.6	93.4	92.4	93.6
BLACK	Black race indicator	90.8	92.5	92.5	93.9	92.1	93.0	92.1	92.5	93.3	90.4	91.1
CEPLACE	Place of college entry	90.5	90.7	90.0	92.0	92.3	94.1	na	na	na	na	na
CEYEAR	Year of college entry	88.8	89.1	87.3	89.5	87.8	87.6	85.8	85.9	86.0	85.8	85.3
CITIZ	Type of citizenship	95.4	95.8	95.7	95.0	93.6	95.1	94.1	93.9	94.0	92.6	94.3
CNTRYCIT ^b	Country of citizenship	95.0	95.5	95.5	94.7	93.3	94.7	93.8	93.7	94.0	92.4	94.0
COGNDIS	Learning/cognitive disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
DEBTLVL	Debt level indicator	89.8	90.6	91.2	na							
DEPENDS	Number of dependents	88.8	89.1	89.4	na							
DEPEND5 ^c	Number of dependents-ages 5 or younger	na	na	na	na	89.1	89.3	88.4	89.1	89.9	88.5	88.5
DEPEND18 ^c	Number of dependents-ages 6-18	na	na	na	na	89.1	89.3	88.4	89.1	89.9	88.5	88.5
DEPEND19 ^c	Number of dependents-ages 19 and older	na	na	na	na	89.1	89.3	88.4	89.1	89.9	88.5	88.5
DISABILITY	Disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.2	90.5
DOCCODE	Type of doctorate	na	na	na	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EDFATHER	Fathers education	89.8	90.5	90.9	90.9	89.8	90.1	90.0	90.7	90.8	89.6	90.1
EDMOTHER	Mothers education	90.0	90.8	91.1	91.1	90.1	90.3	90.1	90.8	91.0	89.7	90.2
GDEBTLVL ^c	Graduate debt level	na	na	na	na	89.5	89.8	89.7	90.7	90.8	90.6	91.8
GEMONTH ^d	Month of graduate entry	na	na	na	na	na	na	na	65.7	65.7	73.1	86.8
GEYEAR	Year of graduate entry	na	na	na	na	83.2	82.0	88.3	90.2	90.1	88.4	87.4
HANDICAP	Handicapped status	90.1	90.4	90.9	91.0	89.9	90.2	90.0	90.8	91.0	90.2	90.5
HAWAIIAN	Native Hawaiian/Pacific Islander race indicator	na	na	na	na	92.7	93.1	92.1	92.5	93.3	90.4	91.1
HISPANIC	Hispanic origin indicator	93.7	95.1	94.8	92.4	91.6	92.1	91.5	92.3	92.5	91.4	91.8
HISPORIG	Hispanic origin specified	92.6	94.1	93.7	91.2	90.4	90.3	90.0	90.6	90.9	89.8	90.0
HSPLACE	Place of high school	90.9	91.4	91.9	91.0	90.2	90.5	89.8	91.7	90.6	88.8	89.6
JRCOLL	Junior college indicator	91.9	91.8	92.2	92.1	90.9	91.0	90.1	91.1	91.1	89.6	89.8
MAFIELD	Master's field	78.1	78.3	73.8	80.5	80.2	80.1	83.9	82.7	83.9	83.2	83.4
MAINST	Master's institution	80.7	80.6	76.0	82.5	82.3	82.0	85.5	85.4	85.3	84.6	84.2
MAMONTH	Month of master's	75.3	75.8	71.3	77.5	77.6	77.6	80.1	79.5	80.6	80.4	82.3
MARITAL	Marital status	80.4	79.6	75.0	81.3	81.4	81.2	83.1	82.6	82.8	81.0	84.0
MAYEAR	Year of master's	90.3	90.8	91.2	91.1	90.0	90.4	90.1	90.8	91.0	90.0	90.2
MEDDENT ^d	Earn(ing) professional medical or dental degree	na	na	na	na	na	na	na	91.0	91.2	88.3	87.6
MSPREREQ ^d	Master's degree prerequisite for doctorate	na	na	na	na	na	na	na	89.6	90.5	89.3	89.9
ORTHDIS	Physical/orthopedic disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
OTHRDIS	Other disability (not listed) indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
PDEMPLOY	Postdoctoral employer type	85.8	86.5	87.8	88.7	88.3	88.9	88.7	90.2	90.2	89.9	89.6
PDLOC	Post-graduation location	89.7	92.1	92.4	92.5	91.3	92.9	91.7	92.6	92.5	91.3	91.8
PDOCPLAN	Post-graduation plans	88.0	89.3	90.8	90.2	89.5	90.0	88.5	90.3	91.7	90.5	89.8
PDOCSTAT	Post-graduation status	89.7	90.5	91.2	91.1	90.1	90.4	89.7	91.0	91.4	90.1	89.0
PDSTDSUP	Postdoctoral study support	88.8	90.3	91.1	91.0	90.0	90.4	88.3	89.8	91.5	89.9	89.2
PDUSFOR	Post-graduation location: U.S. or foreign	89.7	92.1	92.4	92.5	91.3	92.9	91.7	92.6	92.5	91.3	91.8
PDWK1ED	Edited primary work activity	85.0	86.2	87.5	86.9	86.2	86.8	88.2	89.6	89.6	88.2	86.7
· Dimine	· ·											
PDWK2ED ^a	Edited secondary work activity	76.2	75.9	76.8	74.6	75.6	77.5	78.3	78.9	78.0	77.6	74.9

TABLE A-4. Item response rates: 1998–2008

Variable name	Variable description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
PDWKSEC ^a	Secondary work activity	76.2	75.9	76.8	74.6	75.6	77.5	78.3	78.8	78.0	77.6	75.0
PHDCY	Calendar year of Ph.D.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDDISS	Dissertation field	90.2	91.0	91.5	91.6	90.6	91.0	90.8	91.7	91.9	91.3	91.8
PHDDISS2 ^{a, c}	Secondary dissertation field	na	na	na	na	25.7	25.2	25.3	27.5	25.7	25.9	26.4
PHDENTRY	First year entry PHDINST after bachelor's	83.7	86.0	85.3	85.3	83.8	83.7	88.9	90.5	90.5	89.5	89.5
PHDFIELD	Ph.D. field	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDFY	Fiscal year of Ph.D.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDINST	Doctoral institution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDMONTH	Month of doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDTYPE1	Type of doctorate	100.0	100.0	100.0	na							
PHDTYPE2	Applied research doctorate type	100.0	100.0	100.0	na							
POSTDOC ^d	Intention to take postdoc position	na	89.8	90.6	89.4	89.8						
PROFDEG ^a	Type of professional doctorate	1.2	2.0	2.2	1.8	2.1	1.9	1.3	1.2	1.0	1.0	1.0
PROFYEAR ^a	Year of professional doctorate	2.8	2.8	2.2	1.8	2.1	1.9	1.3	1.2	1.0	1.1	1.0
QUESTYR	Year questionnaire filled out	91.9	91.9	92.3	92.3	91.3	91.6	91.3	92.1	92.3	na	na
RACE	Edited race/ethnic code	93.7	95.1	94.9	94.4	93.2	93.8	93.5	93.6	93.6	92.8	93.4
RACEOTH	Other/multiple race indicator	90.8	92.4	92.0	na							
REGTTD ^e	Registered time to degree	81.0	84.9	83.4	85.4	85.0	84.7	na	na	na	na	na
SEX	Sex of student	99.6	99.6	99.8	99.8	99.8	100.0	100.0	99.8	99.9	99.9	99.9
SRCE1ED	Edited primary source of support	88.6	90.0	90.3	90.2	88.7	87.5	89.2	90.2	90.1	89.0	90.2
SRCEPRIM	Primary source support	88.7	90.0	90.3	90.2	88.7	88.9	89.2	90.2	90.1	89.0	90.2
SRCESEC	Secondary source of support	79.9	82.3	82.3	81.0	80.3	78.7	77.9	78.0	78.4	76.5	80.5
TICEPHD	Time in undergraduate entry-doctorate	88.8	89.1	87.3	89.5	87.8	87.6	85.8	85.9	86.0	85.7	85.3
TOBAGE	Time out baccalaureate-graduate entry	81.4	84.8	83.6	84.0	83.2	81.9	84.0	85.7	86.0	85.7	85.0
TTDBAPHD ^f	Total time-to-degree	90.1	91.8	90.2	92.0	90.6	91.4	88.7	89.9	90.3	90.5	91.3
TTDGEPHD ^f	Graduate school time-to-degree	na	90.1	90.2	88.5	87.4						
TUITREMS	Tuition remission–full or partial	na	na	na	na	87.3	88.3	87.1	89.5	89.7	88.7	89.3
UDEBTLVL ^c	Undergraduate debt level	na	na	na	na	89.5	89.9	89.7	90.7	90.7	90.3	91.5
VISUDIS	Blind/visual disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
VOCLDIS	Vocal/speech disability indicator	na	na	na	na	na	na	90.0	90.8	91.0	90.1	90.5
WHITE	White race indicator	90.8	92.5	92.5	93.9	92.1	93.0	92.1	92.5	93.3	90.4	91.1
YRSCOURS°	Years of coursework	na	na	na	na	90.0	90.3	88.6	89.3	90.4	89.4	89.6
YRSDISST°	Years preparing dissertation	na	na	na	na	90.2	90.5	88.9	89.4	90.6	89.2	89.5
YRSGRAD°	Years from graduate entry to doctorate	na	na	na	na	89.9	90.1	na	na	na	na	na
YRSNOTWRK ⁹	Years not working on doctoral degree	na	89.9									

na = not applicable; data were not collected or were collected for the first time in that year (see "NOTES").

NOTES: Response rate is percentage of cases providing data on the item divided by universe of doctorate recipients eligible to answer that item. For most items, the full universe of doctorate recipients establishes the universe of eligible respondents. However, a number of items that appeared on survey form for the first time were restricted to a subset of the full universe because a high percentage of respondents submitted data on earlier versions of survey form. Response rates for these variables are not reported in year item appeard on survey but are reported in subsequent years, when item became available to entire respondent universe.

a Variable has low response rate because although all respondents are considered eligible to provide data for item, only some are able to do so.

^b Response rate counts respondents who reported being U.S. citizens/permanent residents or temporary visa holders and provided country of citizenship.

^c Item appeared on survey form for first time in 2001 (see "NOTES").

^d Item appeared on survey form for first time in 2004 (see "NOTES").

e In 2004 survey stopped collecting time spent outside of educational institutions between receipt of bachelor's degree and doctorate, ending calculation of REGTTD.

^f Methodology reports prior to 2007 reported TTDBAPHD as TOTTD and TTDGEPHD as TTDGETOT.

⁹ Item appeared on survey form for first time in 2007 (see "NOTES").

few doctorates in a single year, the degree counts by race/ ethnicity/sex within these fields can be quite small, leading to extensive cell suppression. The field aggregation technique combines data from small fields of degree with the data from related fields, so that the degree counts in the aggregated fields are sufficiently large to protect the confidentiality of respondent information.

A threshold of 25 was determined to be large enough to safely report doctorate recipient counts classified by race/ethnicity/ sex. The count of doctorate recipients in each race/ethnicity/ sex category of tables 36 and 37 is reported for fields in which at least 25 individuals earn a doctorate degree in a given year, regardless of how small the count may be in a particular category. Counts of doctorate recipients in fields having fewer than 25 doctorates awarded are aggregated with those of one or more related fields until the total number of doctorates in the aggregated field rises to at least 25. The degree count in each race/ethnicity/sex category of these aggregated fields is reported in tables 36 and 37, but the constituent fine fields of the aggregated fields are not displayed.

In 2007, 76 of the 292 fine fields of degree awarded fewer than 25 doctorates; in 2008, there were 78 such fields. These below-threshold fields were combined with related fields of degree to produce 37 aggregated fields in 2007 and 38 aggregated fields in 2008. Table A-5 lists the aggregated fields that appear in tables 36 and 37 for both the 2007 and the 2008 tables and identifies their constituent fine fields.

Changes to Survey Variables

Citizenship

The variable CITIZ is used to identify non-U.S. citizens for whom visa status was unknown. A new code frame for the data was introduced in 2000. (See table A-4 for descriptions of variable names.)

Code	Citizenship category
0	U.S. native
1	U.S. naturalized citizen
2	Non-U.S. immigrant (permanent resident)
3	Non-U.S. non-immigrant (temporary U.S. visa)
4	Non-U.S., visa status unknown
Blank	Missing/citizenship unknown

Beginning in 2000, a logical assignment to code 4 was made if all follow-up attempts for missing citizenship were unsuccessful. The assignment was made for 1997–2003 records if three out of four variables—BIRTHPL, HSPLACE,

CEPLACE, PDLOC—were non-U.S. locations. Due to changes in the survey form beginning in 2004, CEPLACE was no longer available for respondents who used forms from 2004 and later. For those doctorate recipients, BAPLACE was used instead of CEPLACE for assigning the citizenship status. Respondents reporting a non-U.S. country of citizenship but not responding to the citizenship status item are assigned to code 4 for CITIZ. For the purposes of the tabulations in this report, code 4 was combined with code 3. This is consistent with what was done in previous rounds and seems well justified by an examination of the data. However, the existence of this new code will allow the data user to exclude the cases for which visa status is unknown if desired. One should keep in mind that the number of cases in this group (code 4) is not sufficient to warrant analysis as a separate group.

Debt

The item indexing debt was changed in 2001 to allow the identification of debt due to undergraduate education separately from that due to graduate education (see item A7 on the questionnaire, appendix B). The resulting variables identify nine ranges of debt for each referent (undergraduate or graduate). To estimate overall debt, the midpoint of the chosen range for undergraduate and for graduate debt was selected and summed to yield a total debt amount. Where mean debt levels are presented in this report (i.e., tables 23 and 24), the individual values for debt are assigned as the midpoint of the chosen range for graduate and undergraduate debt. Doctorate recipients who chose the lowest debt category (No debt) were assigned a value of \$0 for the computation of mean debt levels. Doctorate recipients who chose the uppermost category (\$70,001 and up) were assigned a value of \$75,000 for the computation of mean debt levels. All valid responses, including "No debt," were included in the computation of all average debt figures in this report. See item A7 in appendix B for a complete listing of the ranges on which the midpoint figures were based.

Median Computation

Since 1994 medians have been computed as follows. Months (of birth, baccalaureate, and doctorate) are included in the calculations whenever available. If birth month is missing in the calculation of median age, month value is assigned to the month of the doctorate receipt. If months are missing in the calculation of total time to degree, month values are assigned to the midpoint of the range of days, with a leap year factor included (i.e., assignment to a value of 181.25). If months are missing in the calculation of graduate school time to degree, month values are assigned to the modal value for doctorate recipients who provided month of graduate entry (i.e., assignment to a value of 243.25, which corresponds to the month of September).

Aggregated field name and constituent fields: 2007

Animal breeding, animal nutrition, poultry science

Agricultural animal breeding*

Agricultural science/natural resources

Animal nutrition

Animal science-poultry (or avian)*

Food science, food technology-other

Food science

Food science and technology, other*

Plant breeding, plant sciences-other

Agricultural and horticultural plant breeding*

Plant sciences, other*

Soil chemistry, soil sciences-other

Soil chemistry/microbiology*

Soil sciences, other

Wood science, forestry sciences-other

Wood science and pulp/paper technology*

Forestry and related sciences, other*

Agriculture-general, agricultural sciences-other

Agriculture, general*

Agricultural sciences, other*

Biological/biomedical sciences

Anatomy, developmental biology

Anatomy'

Developmental biology/embryology

Bacteriology, parasitology

Bacteriology*

Parasitology*

Botany, plant pathology, plant physiology

Botany/plant biology

Plant pathology/phytopathology*

Plant physiology*

Endocrinology, human/animal pathology

Endocrinology'

Pathology, human and animal

Biotechnology, biology/biomedical sciences-other

Biotechnology*

Biology/biomedical sciences, other

Health sciences, aggregated

Environmental toxicology*

Health sciences, general*

Health sciences, other

Atmospheric science and meteorology

Atmospheric physics, meteorology

Atmospheric physics and dynamics*

Meteorology*

Atmospheric chemistry, atmospheric sciences-other

Atmospheric chemistry and climatology*

Atmospheric sciences/meteorology, other*

Geological and earth sciences

Geochemistry, mineralogy

Geochemistry

Aggregated field name and constituent fields: 2008

Agricultural science/natural resources

Animal breeding, animal nutrition, poultry science

Agricultural animal breeding*

Animal nutrition*

Animal science-poultry (or avian)*

Food science, food technology-other

Food science

Food science and technology, other*

Plant breeding, plant sciences-other

Agricultural and horticultural plant breeding*

Plant sciences, other*

Soil chemistry, soil sciences-other

Soil chemistry/microbiology*

Soil sciences, other

Forest biology, wood science, forestry sciences-other

Forest sciences and biology*

Wood science and pulp/paper technology*

Forestry and related sciences, other*

Agriculture-general, agricultural sciences-other

Agriculture, general*

Agricultural sciences, other*

Biological/biomedical sciences

Anatomy, developmental biology

Anatomy*

Developmental biology/embryology

Bacteriology, parasitology

Bacteriology*

Parasitology*

Botany, plant pathology, plant physiology

Botany/plant biology

Plant pathology/phytopathology*

Plant physiology*

Endocrinology, human/animal pathology

Endocrinology*

Pathology, human and animal

Biotechnology, biology/biomedical sciences-other

Biotechnology*

Biology/biomedical sciences, other

Genetics-human/animal, plant genetics

Genetics/genomics, human and animal

plant genetics*

Health sciences, aggregated

Environmental toxicology

Health sciences, general*

Health sciences, other

Atmospheric science and meteorology

Atmospheric physics, meteorology

Atmospheric physics and dynamics*

Meteorology*

Atmospheric chemistry, atmospheric sciences-general,

atmospheric sciences-other

Atmospheric chemistry and climatology* Atmospheric sciences/meteorology, general*

Atmospheric sciences/meteorology, other*

Geological and earth sciences

Geochemistry, mineralogy

Geochemistry

Aggregated field na	me and constituent	fields: 2007
Aggregateu netu na	me and constituen	116105. 2001

Mineralogy and petrology*

Geomorphology, geological sciences-general Geomorphology and glacial geology*

Geological and earth sciences, general*

Paleontology, stratigraphy

Paleontology

Stratigraphy and sedimentation*

Mathematics

Applied mathematics, computing theory

Applied mathematics

Computing theory and practice*

Logic, topology/foundations

Logic*

Topology/foundations

Operations research, mathematics/statistics-general,

mathematics/statistics-other Operations research* Mathematics/statistics, general Mathematics/statistics, other*

Ocean/marine sciences, aggregated Hydrology and water resources*

Ocean/marine, other*

Physics

Acoustics, optics/phototonics

Acoustics* Optics/phototonics

Atomic physics, polymer physics Atomic/molecular/chemical physics

Polymer physics*

Psychology, aggregated Comparative psychology* Personality psychology*

Psychology, other

Social sciences

Econometrics, economics Econometrics*

Economics

Demography, statistics, urban affairs, social sciences-other

Demography/population studies*

Statistics*

Urban affairs/studies* Social sciences, other

Other engineering, aggregated

Agricultural engineering* Ceramic sciences engineering* Communications engineering* Engineering mechanics* Engineering physics* Engineering science* Metallurgical engineering* Mining and mineral engineering*

Ocean engineering* Petroleum engineering*

Polymer and plastics engineering*

Aggregated field name and constituent fields: 2008

Mineralogy and petrology*

Geomorphology, geological sciences-general, geological sciences-other

Geomorphology and glacial geology* Geological and earth sciences, general* Geological and earth sciences, other*

Paleontology, stratigraphy

Paleontology*

Stratigraphy and sedimentation*

Mathematics

Applied mathematics, computing theory

Applied mathematics Computing theory and practice* Logic, topology/foundations

Logic*

Topology/foundations

Operations research, mathematics/statistics-general,

mathematics/statistics-other Operations research* Mathematics/statistics, general Mathematics/statistics, other

Ocean/marine sciences, aggregated Hydrology and water resources Ocean/marine, other*

Physics

Acoustics, optics/phototonics

Acoustics* Optics/phototonics

Atomic physics, polymer physics Atomic/molecular/chemical physics

Polymer physics*

Psychology, aggregated Comparative psychology*

Personality psychology*

Psychometrics and quantitative psychology*

Psychology, other

Social sciences

Econometrics, economics Econometrics* **Economics**

Demography, statistics, urban affairs, social sciences-other

Demography/population studies*

Statistics*

Urban affairs/studies* Social sciences, other

Other engineering, aggregated

Agricultural engineering Ceramic sciences engineering* Communications engineering* Engineering mechanics* Engineering physics* Engineering science* Metallurgical engineering* Mining and mineral engineering*

Ocean engineering* Petroleum engineering*

Polymer and plastics engineering*

TABLE A-5. Aggregated fields and their constituent fine fields: 2007 and 2008

Aggregated field name and constituent fields: 2007	Aggregated field name and constituent fields: 2008
Engineering management and administration*	Engineering management and administration*
Engineering, general*	Engineering, general*
Engineering, other	Engineering, other
Other education, aggregated	Other education, aggregated
Business education*	Business education*
Family and consumer/human science*	Family and consumer/human science
Nursing education*	Nursing education*
Social science education*	Social science education*
Trade and industrial education*	Trade and industrial education*
Education, other	Education, other
Foreign languages and literature	Foreign languages and literature
French, Italian	French, Italian
French	French
Italian*	Italian*
Other aggregated languages	Other aggregated languages
Arabic*	Arabic*
Chinese*	Chinese*
Japanese*	Japanese*
Russian*	Russian*
Slavic (other than Russian)*	Slavic (other than Russian)*
Other languages and literature	Other languages and literature
History, aggregated	History, aggregated
African history*	African history*
History, other	History, other
·	
Letters, aggregated	Letters, aggregated
Creative writing* Folklore*	Creative writing Folklore*
Letters, general* Letters, other	Letters, general Letters, other
Other humanities, aggregated	Other humanities, aggregated
Bible/biblical studies*	Bible/biblical studies
Humanities, other	Music, other*
	Humanities, general*
	Humanities, other
Business management/administration	Business management/administration
Banking/financial services, finance	Banking/financial services, finance
Banking/financial support services*	Banking/financial support services*
Finance	Finance
Business economics, international business, business-other	Other aggregated business fields
Business/managerial economics*	Business/managerial economics*
International business/trade/commerce*	International business/trade/commerce*
Business management/administration, other	Operations research*
	Business management/administration, other
Communication, aggregated	Communication, aggregated
Film, radio, TV and digital communication*	Film, radio, TV and digital communication*
Communication, other	Communication, other*
Fields nec, aggregated	Fields nec, aggregated
Law*	Law
Other fields nec	Library science*
2	Other fields nec*
* Indicates fine fields of degree with counts of doctorate recipients below n	

nec = not elsewhere classified.

Graduate school time-to-degree medians presented in reports published before 2004 were based only on years. Some medians would be the same regardless of the method of computation, but the new method generally yields slightly different results. Although differences are small (usually oneor two-tenths of a year), readers should consider these differences when comparing medians presented in the report with those in earlier reports.

Postdoctoral Plans to Stay in the United States

In 1997 the planned postdoctoral location of doctorate recipients began being coded in a new variable using Federal Information Processing Standards (FIPS) codes for U.S. states and territories and countries.

Also in 1997, a dichotomous variable was created to index whether the planned postdoctoral location reported by the respondent was in the United States or in a foreign location. This second variable captures a respondent's report of postgraduation location (in the United States or outside the United States) even if the respondent does not indicate a specific state or country.

Race and Hispanic Ethnicity

Since 2001 respondents have been asked to first indicate whether or not they are Hispanic and then to check one or more of the racial group categories (i.e., American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, black or African American, or white).

Doctorate recipients who report Hispanic heritage, regardless of racial designation, are counted as Hispanic. The remaining survey respondents are counted in their respective racial groups if they reported one race, multi-race, or Other/Unknown. Since 2001 the "Other/Unknown" category has included non-Hispanic doctorate recipients who did not indicate race, Native Hawaiian and Other Pacific Islanders, and doctorate recipients who did not indicate race/ethnicity). Beginning with this report, respondents who indicated more than one race are reported in a separate category called "multi-race," whereas in reports for 2001–06 these respondents were grouped with the "Other/ Unknown" category.

From 1982 to 2000 respondents were also asked to indicate their Hispanic ethnicity before indicating their racial category but were instructed to mark only one racial category, rather than one or more, and the categories were different: American Indian or Alaska Native, Asian or Pacific Islander, black, white, or Other/unknown. Before 2001, the "Other/unknown" category included non-Hispanic doctorate recipients who did not indicate their race and those with unknown race/ethnicity.

Research Doctoral Degree

As doctoral degree programs change to meet the needs of students, the orientation of degrees they award may change from research to professional and vice versa. Survey staff review degree programs to ensure that the research doctorate designation remains appropriate for the SED. As a result of degree reviews in the past two survey rounds, survey staff identified several research doctoral degrees that had shifted toward a professional orientation. The doctor of music, DM. and the doctor of industrial technology, DIT, were both completely dropped from the SED in 2008, and graduates earning these doctoral degrees are no longer included in the SED. Table A-1 lists the doctoral degrees that were eligible for inclusion in the SED in 2007 and 2008.

Definitions

Definite plans to stay in the United States. A respondent is coded as having firm plans to stay in the United States if the reported postdoctoral location was in the United States and the reported postdoctoral plans were coded "definite."

Definite postdoctoral plans. The status of postdoctoral plans is coded using the values from item B3 of the survey, which indicate whether the doctorate recipient's postdoctoral plans were definite at the time the survey was completed.

Field of study. The SED has 292 fine fields of doctoral study, which are grouped into 36 major fields of study. The major field groupings are further aggregated into seven broad fields: life sciences, social sciences, physical sciences, engineering, education, humanities, and other fields. The levels of this variable were derived by grouping related fine fields of study from the field of study taxonomy used in the SED (table A-6). See appendix B for a full listing of the fine fields of study in 2007 and 2008.

Doctorate recipients indicate their fields of specialty. Their choices may differ from departmental names. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates (SED). The "general" field categories—e.g., "chemistry, general" include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The "other" field categories—e.g., "chemistry, other" include individuals whose specified doctoral discipline was not among the specialty fields listed.

Median age at doctorate. One-half of the respondents received the doctorate at or before this age. A recipient's age is obtained by subtracting the month/year of birth from the month/year of doctorate. (See "Survey Changes," above, for calculation of the median.)

TABLE A-6. Aggregation used to determine major fields of study in the Survey of Doctorate Recipients, and corresponding SED field codes

Field of study	SED field code	Field of study	SED field code
Life sciences	000–299	Industrial engineering	339
Agricultural sciences/natural resources	000–099	Materials/metallurgical engineering	309, 342, 348
Biological/biomedical sciences	100–199	Mechanical engineering	327, 345
Health sciences	200–299	Other engineering	All fields 300–399 not listed above
Social sciences	600–699	Education	800–899
Anthropology	650	Education administration	805, 807
Economics	667, 668	Education research	800 or 810-845
Political science/international relations	674–679	Teacher education	850–858
Psychology	600–649	Teaching fields	860–889
Sociology	686	Other education	All fields 800-899 not listed above
Other social sciences	All fields 600-699 not listed above		
		Humanities	700–799
Physical sciences	400–599	American literature	732
Physics and astronomy	500-505, 560-579	English language and literature	726, 733, 734
Chemistry	520-539	Foreign language and literature	740–769
Earth, atmospheric, and ocean sciences	510-519, 540-559, 580-599	History	700–719
Mathematics	420–499	Other humanities	All fields 700-799 not listed above
Computer and information sciences	400–419		
		Other fields	900–999 or missing field
Engineering	300–399	Business and management	900–939
Aerospace/aeronautical engineering	300	Communication	940–959
Chemical and related engineering	312, 366, 369	Fields not elsewhere classified	960–989
Civil and related engineering	315, 336	Fields not listed above	999
Electrical and related engineering	318, 321, 324		

Percentage with master's. The percentage of doctorate recipients in a field who received a master's degree in any field before earning the doctorate.

Research doctorate. A research doctoral degree is a degree that is oriented toward preparing students to make original intellectual contributions in a field of study. Research doctorates require the completion of a dissertation or equivalent project, and are not primarily intended for the practice of a profession.

Time to doctorate. The SED measures time to degree as (1) the total time elapsed from completion of the baccalaureate to completion of the doctorate (total time to degree) or (2) the total time elapsed from the start of any graduate school to completion of the doctorate (graduate school time to degree). Time-to-doctorate measures herein are reported as medians.

Total time to degree. The total elapsed time between the baccalaureate and the doctorate, including time not enrolled in school. This variable can be computed only for individuals whose baccalaureate year is known. Baccalaureate year is often obtained from commencement programs or doctorate institutions when not reported by the recipient. Months are now included in the computation. (See "Changes in Survey Variables," above, for computation of the median.)

Graduate school time to degree. The elapsed time from the initiation of graduate study in any program or capacity at any university and the doctorate. This variable can only be computed for individuals who provided the year they started graduate school. Months are now included in the computation. (See "Changes in Survey Variables," above, for computation of the median.)

U.S. regions of employment. Used to classify the location of U.S. employment after award of the doctorate.

New England Connecticut, Maine, Massachusetts,

New Hampshire, Rhode Island,

Vermont

Middle Atlantic New Jersey, New York, Pennsyl-

vania

East North Central Illinois, Indiana, Michigan, Ohio,

Wisconsin

West North Central Iowa, Kansas, Minnesota, Missouri,

Nebraska, North Dakota, South

Dakota

South Atlantic Delaware, District of Columbia,

> Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia,

West Virginia

East South Central Alabama, Kentucky, Mississippi,

Tennessee

West South Central Arkansas, Louisiana, Oklahoma,

Mountain Arizona, Colorado, Idaho, Montana,

Nevada, New Mexico, Utah,

Wyoming

Alaska, California, Hawaii, Oregon, Pacific and Insular

> Washington, American Samoa, Guam, Puerto Rico, Trust Territo-

ries, Virgin Islands

Appendix B. Survey Questionnaires, Academic Years 2006–07 and 2007–08



SED

Survey of Earned Doctorates July 1, 2006 to June 30, 2007

Conducted by
NORC

A national organization for research
at the University of Chicago















Please complete:

First Name	Middle Name	Last Name	Suffix (e.g., Jr.)
Cross Reference: Birth name or	former name legally changed		
Name of Doctoral Institution		City or Branch	
Type of Research Doctoral Degre	e (e.g., Ph.D, Ed.D, etc.)		Date Degree Granted (mm/yyyy)

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. ALL INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. The last four digits of your Social Security Number are also solicited under the NSF Act of 1950, as amended; provision of it is voluntary. It will be kept confidential. It is used for quality control, to assure that we identify the correct persons, especially when data are used for statistical purposes in Federal program evaluation. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 19 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer. A Federal agency may not conduct or sponsor a collection of information unless it displays a currently valid OMB control number.

OMB No.: 3145-0019 Approval Expires 05/31/2009

INSTRUCTIONS

Thank you for taking the time to complete this questionnaire. Directions are provided for each question.
If you have not already done so, please PRINT your name on the front cover.
Please print all responses; you may use either a pen or a pencil.

- When answering questions that require marking a box, please use an "X."

FDUCATION

A1.	What is the title of your dissertation? Please mark (X) this box if the title below refers to a performance, project report, or musical or literary composition required instead of a dissertation.		Which of the followin support during gradu Mark ALL that apply a Fellowship, schola	ate school?	nancial
	Title		b Grant	r	
	nue		c Teaching assistan	tshin	
			d Research assistan	•	
			e Other assistantshi		
			f Traineeship	Ρ	
A2.	Please write the name of the primary field of your			Lraaldanau	
	dissertation research.		g Internship, clinica	•	
			h Loans (from any se	ource)	
	Name of Field		Personal savings	ding graduate calcal (ath th	an aguraga liated about
	Using the list on page 7, choose the code that best		-	ring graduate school <i>(other tha</i>	
	describes the primary field of your dissertation			s, or family's earnings or s	avings
	research.		Employer reimburs		
	Number of Field		m Foreign (non-U.S.)	support	
	If your dissertation research was interdisciplinary, list the name and number of your secondary field.		n Other - Specify		
	ist the name and number of your secondary field.	Δ.	M/h: ala TMO a a		
			Which TWO sources list Enter letters of primary and	•	ie most support?
	Name of Field		Litter letters of primary and	a securidary sources	
	Number of Field		1 Primary source of	support	
	If there were more than two fields, please continue on the back cover of the questionnaire (p. 10).		2 Secondary source		
A3.	Please name the department (or interdisciplinary committee, center, institute, etc.) of the university	Α7	Mark (X) if I When you receive you	no secondary source ur doctoral degree h	now much
	that supervised your doctoral studies.		money will you owe the undergraduate and g	nat is directly related	
	Day orthograph / Carpanith as / Carphar / In attitude / Drawer and		Mark (X) one in each colun	nn	
	Department/Committee/Center/Institute/Program		UNDERGRADUATE	GRADUATE	
A4.	If you received full or partial tuition remission (waiver) for your doctoral studies, was it:		0 None	0 None)
			1 \$10,000 or less	1 \$10,	000 or less
	0 I did not receive any tuition remission		2 \$10,001 - \$20,000	2 \$10,	001 - \$20,000
	1 for less than 1/3 of tuition		3 \$20,001 - \$30,000	3 \$20,	001 - \$30,000
	between 1/3 and 2/3 of tuition		4 \$30,001 - \$40,000	4 \$30,	001 - \$40,000
			5 \$40,001 - \$50,000	5 \$40,	001 - \$50,000
	more than 2/3 of tuition, but less than full		0 4.0/00. 400/000		001 400/000
	more than 2/3 of tuition, but less than fullfull tuition remission		6 \$50,001 - \$60,000	6 \$50,	001 - \$60,000
			\$50,001 - \$60,000	7 \$60,	001 - \$60,000

A8.	The next few questions ask about the degree following information for the most recent materials and the second materials are second materials.			please provide the
		This research doctoral degree	Most recent master's degree (e.g. MS, MA, MBA) or equivalent	First bachelor's degree (e.g. BA, BS, AB) or equivalent
a.	Have you received a degree of this type?	X Yes No	Yes No	Yes No
b.	Month/year that you started your degree	Month	Month	Month Year
C.	Month/year degree granted		Month	Month
d.	Primary field of study	Year	Year	Year
e.	Field number from list on p. 7.			
f.	Institution name			
q.	Branch or city			
	State or province			
i.	Country	USA		
A9.	Excluding those above, have you attained any additional postsecondary degrees?	Yes No	If yes, please list the add	ditional degree(s), granting
A10.	Was a master's degree a prerequisite for admission to your doctoral program?	Yes No	institution(s), and years. Degree Type	
A11.	In what month and year did you first enter graduate school in <u>any</u> program or capacity, in <u>any</u> university?	Month	Degree Field Field Number, p. 7 Month/Year Granted	
A12.	How many years were you: a. taking courses or preparing for exams	Year	Institution	
	for this doctoral degree (including a master's degree, if that was part of your doctoral program)?	Years (round to whole years)	,	
	b. working on your dissertation after coursework and exams (non-course related preparation, writing and defense)?	Years (round to whole years)	Degree Field	
A13.	Was there any time from the year you entered your doctoral program and the award of your doctorate that you were not working on your degree		Month/Year Granted Institution	
	(that is, not taking courses or working on your dissertation)?	Yes No		
	If yes, please provide the number of years	Years (round to whole years)	lf necessary, p.	lease continue this list on the back cover (p. 10).

14. Did you earn college credit from a community or two- year college?	o- A15. Are you earning, or have you earned, an MD or a DDS?
1 Yes 2 No	1 Yes 2 No
Part B - POSTGRADUATION	ON PLANS
 In what country or state do you intend to live after graduation (within the next year)? in U.S. → State not in U.S. → Country Do you intend to take a "postdoc" position? (A "postdoc" is a temporary position primarily for gaining additional 	B5. What will be the main source of financial support for your "postdoc" or further training within the next year? Mark (X) one U.S. government Industry/business College or university
education and training in research, usually awarded in academe, industry, or government.) 1 Yes 2 No 3. What is the status of your postgraduate plans	3 Private foundation 4 Nonprofit, other than private foundation or college 5 Foreign government 6 Other - Specify
(in the next year)? Mark (X) one Returning to, or continuing in, predoctoral employment Have signed contract or made definite commitment for a "postdoc" or other work	GO TO B6. What type of principal employer will you be working for (or training with) in the next year?
Negotiating with one or more specific organizations Seeking position but have no specific prospects Other full-time degree program (e.g., MD, DDS, JD, MBA, etc.) Do not plan to work or study (e.g., family commitments, etc.) Other - Specify	U.S. medical school (including university-affiliated nospital or medical ce U.S. university-affiliated research institute U.S. community or two-year college
4. What best describes your (within the next year) postgraduate plans? Mark (X) one "POSTDOC" OR FURTHER TRAINING 0 "Postdoc" fellowship 1 "Postdoc" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other - Specify	5 U.S. preschool, elementary, middle, secondary school or school syster 6 Foreign educational institution GOVERNMENT (other than education institution) 7 Foreign government 8 U.S. federal government 9 U.S. state government 10 U.S. local government GO PRIVATE SECTOR (other than education institution) B5 Not for profit organization
EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service	12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify SKIP TO
7 Other - Specify	B7. Please name the organization and geographic location where you will work or study. Name State (if U.S.) Country (if not U.S.)

B8. What will be your primary and secondary work activities? Mark (X) one in each column PRIMARY SECONDARY Research and development 1 1 1 Teaching 2 2 2 Management or administration 3 3 Professional services to individuals 4 4 Other - Specify 5 5 Mark (X) if no secondary work activities Part C - BACKGROUND INFO	RMATION
C1. Are you -	C5. What is your place of birth? State (if U.S.)
C2. What is your marital status?	OR Country (if not U.S.)
Mark (X) one 1	C6. What is your date of birth? Month Day Year 1 9 C7. What is your citizenship status? Mark (X) one U.S. CITIZEN Since birth Naturalized NON-U.S. CITIZEN With a Permanent U.S. Resident Visa ("Green Card") With a Temporary U.S. Visa C8. (If a non-U.S. citizen) Of which country are you a citizen? Specify country of present citizenship C9. In what state or country was the high school/secondary school that you last attended?
C4. What is the highest educational attainment of your mother and father? Mark (X) one for each parent a MOTHER b FATHER Less than high/secondary school graduate 1 1 1 High/secondary school graduate 2 2 2 Some college 3 3 3 Bachelor's degree 4 4 4 Master's degree 5 5 5 (e.g., MA, MS, MBA, MSW, etc.) Professional degree 6 6 (e.g., MD, DDS, JD, D.Min, Psy.D., etc.) Research doctoral degree 7 7 Not applicable 8 8	State (if U.S.) OR Country (if not U.S.) .

C10. Are you a person with a disability? 1 Yes	C15. Please fill in the last four digits of your Social Security Number. X X X X - X X - C16. In case we need to clarify some of the information you have provided, please list an e-mail address and telephone number where you can be reached. E-mail Address Daytime or Cell Telephone C17. Please provide your address and the name and address of a person who is likely to know where you can be reached. YOUR CURRENT ADDRESS:
C12. Are you Hispanic or Latino? 1 Yes — G0 T0 C13 2 No — SKIP T0 C14 C13. Which of the following best describes your Hispanic origin or descent? Mark (X) one 1 Mexican or Chicano 2 Puerto Rican 3 Cuban 4 Other Hispanic - Specify C14. What is your racial background? Mark (X) one or more a American Indian or Alaska Native	City/State/Country/Zip or Postal Code CURRENT ADDRESS OF A PERSON WHO WILL KNOW WHERE YOU CAN BE REACHED: Name Street Address City/State/Country/Zip or Postal Code The results of this survey will be published in a Summary Report; the Summary Reports on earlier surveys are available at http://www.norc.uchicago.edu/issues/docdata.htm. Please use the back cover to make any additional comments you may have about this survey. Thank you for completing the questionnaire. Please return this questionnaire to your GRADUATE SCHOOL for
b Native Hawaiian or other Pacific Islander c Asian d Black or African-American e White	forwarding to Survey of Earned Doctorates, NORC at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602. If you have questions or concerns about the survey, you may contact us by e-mail at 4800-sed@norc.uchicago.edu or phone at 1-800-248-8649.



	ISINESS MANAGEMENT/ADMINIST				
05 10 15 01	Accounting Banking/Financial Support Services Business Administration & Management Business/Managerial Economics Finance Human Resources Development	920 917	International Business/Trade/Commerce Marketing Management & Research Management Information Systems/Business Statistics Operations Research (also in ENGINEERING & in MATHEMATICS)	938	Organizational Behavior (see also PSYCHOLOGY/Industrial & Organizational) Business Management/Administration, General Business Management/Administration, Other
CC	OMMUNICATION				
	Communication Research Communication Theory		Film, Radio, TV & Digital Communication Mass Communication/Media Studies		Communication, General Communication, Other
CC	MPUTER & INFORMATION SCIEN	CES			
00	Computer Science	410	Information Science & Systems	419	Computer & Information Science, Other
D)D	DUCATION				
40 00 05 20	EARCH & ADMINISTRATION Counseling Education/Counseling & Guidance Curriculum & Instruction Educational Administration & Supervision Educational Assessment/Testing/Measurement CHER EDUCATION	810 807 822 815		825 830	Higher Education/Evaluation & Research School Psychology (also in PSYCHOLOGY) Social/Philosophical Foundations of Education Special Education
58	Adult & Continuing Teacher Education Elementary Teacher Education	850	Pre-elementary/Early Childhood Teacher Education	856	Secondary Teacher Education
60 61 62 64 70	CHING FIELDS Agricultural Education Art Education Business Education English Education Family & Consumer/Human Science (also in Fields Not Elsewhere Classified)		Foreign Languages Education Health Education Mathematics Education Music Education Nursing Education Physical Education & Coaching	884 885 888	Reading Education Science Education Social Science Education Trade & Industrial Education Teacher Education & Professional Development
	HER EDUCATION Education, General	899	Education, Other		
ΕN	GINEERING				
03 06 09 12 15 18	Aerospace, Aeronautical & Astronautical Engineering Agricultural Engineering Bioengineering & Biomedical Engineering Ceramic Sciences Engineering Chemical Engineering Civil Engineering Communications Engineering Computer Engineering Electrical, Electronics & Communications Engineering	376 327 330 333 336 339 342 345 348 351	Engineering Mechanics Engineering Physics Engineering Science	360 363 366 369 372 398	Nuclear Engineering Ocean Engineering Operations Research (also in MATHEMATICS & in BUSINESS MANAGEMENT) Petroleum Engineering Polymer & Plastics Engineering Systems Engineering Engineering, General Engineering, Other
	JMANITIES				
06	TORY African History American History (U.S. & Canada) Asian History		European History History, Science & Technology & Society Latin American History	718	Middle/Near East Studies History, General History, Other
68 58 40	EEIGN LANGUAGES & LITERATURE Arabic Chinese French German	762	Italian Japanese Russian	749	Slavic (other than Russian) Spanish Other Languages & Literature
32 20 23	TERS American Literature (U.S. & Canada) Classics Comparative Literature Creative Writing	734 733 724	English Language English Literature (British & Commonwealth) Folklore	738	Speech & Rhetorical Studies Letters, General Letters, Other
70 73 76 92 95	HER HUMANITIES American/U.S. Studies Archaeology Art History/Criticism/Conservation Bible/Biblical Studies Drama/Theater Arts	780 786 787 788 789	Music Music Theory & Composition Music Performance Musicology/Ethnomusicology Music, Other	790 798	Philosophy Religion/Religious Studies Humanities, General Humanities, Other
	FE SCIENCES	TIC			
105 100 125 120 110 114	Agricultural Animal Breeding Agricultural Animal Breeding Agricultural Economics Agricultural & Horticultural Plant Breeding Agronomy & Crop Science Animal Nutrition Animal Science, Poultry (or Avian) Animal Science, Other Environmental Science	055 043 044 066 070 079 050		039 046 049 080 072 098	Plant Pathology/Phytopathology (also in BIOLOGICAL SCIENCES) Plant Sciences, Other Soil Chemistry/Microbiology Soil Sciences, Other Wildlife/Range Management Wood Science & Pulp/Paper Technology Agriculture, General Agricultural Science, Other

BIO	LOGICAL/BIOMEDICAL SCIENCES				
30 10 00 02 03 33 05 07 29	Anatomy Bacteriology Biochemistry (see also PHYSICAL SCIENCES/ Chemistry, other) Bioinformatics Biomedical Sciences Biometrics & Biostatistics Biophysics (also in PHYSICS) Biotechnology Botany/Plant Biology Cancer Biology	142 139 145 148 137 170 151 157 154 160	Cell/Cellular Biology & Histology Developmental Biology/Embryology Ecology Endocrinology Entomology Evolutionary Biology Genetics/Genomics, Human & Animal Immunology Microbiology Molecular Biology Neurosciences Nutrition Sciences	175 180 185 115 120 125 169 189	Parasitology Pathology, Human & Animal Pharmacology, Human & Animal Physiology, Human & Animal Plant Genetics Plant Pathology/Phytopathology (also in AGRICULTURAL SCIENCES) Plant Physiology Toxicology Zoology Biology/Biomedical Sciences, General Biology/Biomedical Sciences, Other
210 211 220 212 222	LTH SCIENCES Environmental Health Environmental Toxicology Epidemiology Health Systems/Service Administration Kinesiology/Exercise Science	215	Medicinal/Pharmaceutical Sciences Nursing Science Public Health Rehabilitation/Therapeutic Services	250 298	Speech-Language Pathology & Audiology Veterinary Sciences Health Sciences, General Health Sciences, Other
	ATHEMATICS				
30 20 60	Algebra Analysis & Functional Analysis Applied Mathematics Computing Theory & Practice Geometry/Geometric Analysis	445	Logic Number Theory Operations Research (also in ENGINEERING & in BUSINESS MANAGEMENT/ADMIN.)	455 498	Statistics (also in SOCIAL SCIENCES) Topology/Foundations Mathematics/Statistics, General Mathematics/Statistics, Other
PH	YSICAL SCIENCES				
	RONOMY Astronomy	505	Astrophysics		
TM 10	IOSPHERIC SCIENCE & METEOROLOGY Atmospheric Chemistry & Climatology Atmospheric Physics & Dynamics		Meteorology Atmospheric Science/Meteorology, General	519	Atmospheric Science/Meteorology, Other
20 22	EMISTRY Analytical Chemistry Inorganic Chemistry Organic Chemistry	530 532 534	Physical Chemistry Polymer Chemistry Theoretical Chemistry		Chemistry, General Chemistry, Other <i>(see also BIOLOGICAL/Biochemistr</i>)
42 40	DLOGICAL & EARTH SCIENCES Geochemistry Geology Geomorphology & Glacial Geology	544 548 546	Geophysics & Seismology Mineralogy & Petrology Paleontology	558	Stratigraphy & Sedimentation Geological & Earth Sciences, General Geological & Earth Sciences, Other
85 90	EAN/MARINE SCIENCES Hydrology & Water Resources Oceanography, Chemical & Physical	595 599	Marine Sciences Ocean/Marine, Other		
60 76 61	SICS Acoustics Applied Physics Atomic/Molecular/Chemical Physics Biophysics (also in BIOLOGICAL SCIENCES)	569	Condensed Matter/Low Temperature Physics Nuclear Physics Optics/Photonics Particle (Elementary) Physics	572 578	Plasma/Fusion Physics Polymer Physics Physics, General Physics, Other
	YCHOLOGY				
03 06 09 12	Clinical Psychology Cognitive Psychology & Psycholinguistics Comparative Psychology Counseling Developmental & Child Psychology Educational Psychology (also in EDUCATION)	620 613 621	Experimental Psychology Family Psychology Human Development & Family Studies Industrial & Organizational (see also BUSINESS MANAGEMENT/Organization Behavior) Personality Psychology	633 636 639 648	Physiological/Psychobiology Psychology Psychometrics & Quantitative Psychology School Psychology (also in EDUCATION) Social Psychology Psychology, General Psychology, Other
so	CIAL SCIENCES				
52 57 58 62	Anthropology Area/Ethnic/Cultural/Gender Studies Criminal Justice & Corrections Criminology Demography/Population Studies Econometrics	670 674 676 678	Economics Geography International Relations/Affairs Linguistics Political Science & Government Public Policy Analysis	690 694 695 698	Sociology Statistics (also in MATHEMATICS) Urban Affairs/Studies Urban/City, Community & Regional Planning Social Sciences, General Social Sciences, Other
	ELDS NOT ELSEWHERE CLASSIFIE				
64	Architecture/Environmental Design Family/Consumer Science/Human Science (also in EDUCATION) Law	974 976	Library Science Parks/Sports/Rec./Leisure/Fitness Public Administration Social Work		Theology/Religious Education (see also OTHER HUMANITIES/Religion/Religious Studies) Other Fields, NEC

To the Doctorate Recipient:

Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agencies—listed on the cover—sponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey. If you have any comments about the survey, please provide them in the space below.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.

Best wishes,

Dr. Lynda T. Carlson National Science Foundation

Comments about the survey:

	ITIONS TO QUE (continued)	STIONS
	Name of Field	
	Number of Field	
	Name of Field	
	Number of Field	
A9.	(continued)	
	Degree Type	
	Degree Field	
Fi	eld Number, p. 7	
Mo	nth/Year Granted	
	Institution	
	Branch or City	
	State or Country	
	Degree Type	
	Degree Field	
Fi	eld Number, p. 7	
Mo	nth/Year Granted	
	Institution	
	Branch or City	
	State or Country	

Please return this questionnaire to your GRADUATE SCHOOL for forwarding to:
Survey of Earned Doctorates, NORC at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602.
If you have questions or concerns about the survey, you may contact us by e-mail at 4800-sed@norc.uchicago.edu or phone 1-800-248-8649.

OFFICE USE ONLY								
Case ID:	Instit. Code:		Grad Date:		Main Disp.:			
PROCESSING								
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Initials Date		Initials Date		Initial	als	Date		



Survey of Earned Doctorates July 1, 2007 to June 30, 2008

Conducted by NORC A national organization for research at the University of Chicago















Please complete:

First Name	Middle Name	Last Name	Suffix (e.g., Jr.)
Cross Reference: Birth name or	former name legally changed		
Name of Doctoral Institution		City or Branch	

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. ALL INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. The last four digits of your Social Security Number are also solicited under the NSF Act of 1950, as amended, provision of it is voluntary. It will be kept confidential. It is used for quality control, to assure that we identify the correct persons, especially when data are used for statistical purposes in Federal program evaluation. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 19 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer. A Federal agency may not conduct or sponsor a collection of information unless it displays a currently valid OMB control number.

OMB No.: 3145-0019 Approval Expires 05/31/2009

INSTRUCTIONS

Thank you for taking the time to complete this questionnair e. Directions are provided for each question.
If you have not already done so, please PRINT your name on the front cover.
Please print all responses; you may use either a pen or a pencil.

Part A - EDUCATION

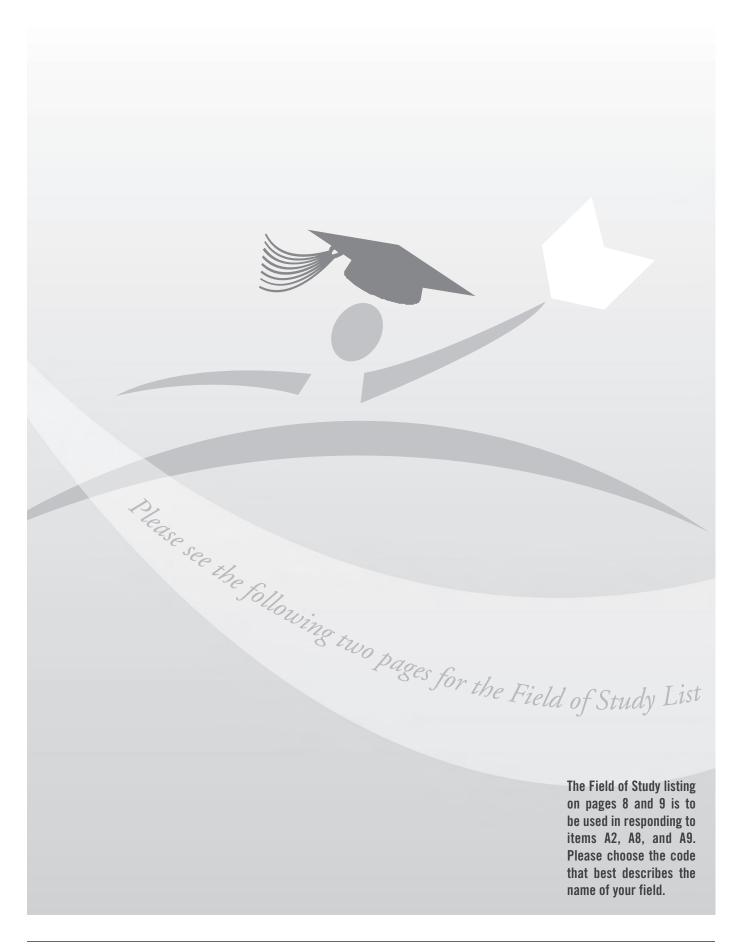
							۰
1. V	/hat is the title of your dissertation?	A5.	Which of the following were	source	s of financia	ıl	
	Please mark (X) this box if the title below refers to a		support during graduate sch	1001!			
	performance, project report, or musical or literary composition required instead of a dissertation.		Mark (X) Yes or No for each			Yes	N
			a Fellowship, scholarship				14
Ti	tle		b Grant				
			c Teaching assistantship				
			d Research assistantship				
			e Other assistantship				
			f Traineeship				
F	Please write the name of the primary field of your						
0	lissertation research.		g Internship, clinical residency				
			h Loans (from any source)				
Ν	lame of Field		i Personal savings				
Į	Ising the list on pages 8 & 9, choose the code that		j Personal earnings during graduate sch (other than sources listed above)	1001			
	est describes the primary field of your dissertation esearch.		k Spouse's, partner's, or family's ea	rnings or	savings		
Ċ	55541.5111		I Employer reimbursement/assista	nce			
Ν	lumber of Field		m Foreign (non-U.S.) support				
l li	f your dissertation research was interdisciplinary, ist the name and number of your secondary field.		n Other - Specify				
ľ	ist the name and namber of your secondary note.						
		46	Which TWO sources listed in A	A5 nrovi	ided the mos	t cunn	ort
Ν	lame of Field	AU.	Enter <u>letters</u> of primary and second			r supp	
Ν	lumber of Field			,			
	f there were more than two fields, additional fields should be		1 Primary source of suppo	rt			
r	eported on page 10.		2 Secondary source of sup	nort			
. Р	lease name the department (or interdisciplinary						
	ommittee, center, institute, etc.) of the university		Mark (X) if no second	dary sourc	re		
tl	hat supervised your doctoral studies.	A7.	When you receive your doct	oral deg	gree, how m	uch	
			money will you owe that is d undergraduate and graduate			our	
D	epartment/Committee/Center/Institute/Program		Mark (X) one in each column	, cuuca	uon:		
	f you received full or partial tuition remission		UNDERGRADUATE	GRAD	UATE		
	waiver) for your doctoral studies, was it:		0 None	0	None		
N	fark (X) one		1 \$10.000 or less	1	\$10.000 or	less	
0	I did not receive any tuition remission		2 \$10,000 or less	2	\$10,000 01		
1	for less than 1/3 of tuition		3 \$20,001 - \$30,000	3	\$20,001 - \$		
2	between 1/3 and 2/3 of tuition				\$20,001 - \$		
3	more than 2/3 of tuition, but less than full			4			
4	full tuition remission		5 \$40,001 - \$50,000	5	\$40,001 - \$,	
			6 \$50,001 - \$60,000	6	\$50,001 - \$		
			7 \$60,001 - \$70,000	7	\$60,001 - \$		
			8 \$70,001 or more - Specify	8	\$70,001 or i	more - S	peci
			\$	\$			

		This research doctoral degree	Most recent master's deg (e.g. MS, MA, MBA) or equivalent	gree First bachelor's degree (e.g. BA, BS, AB) or equivalent
. Hav	ve you received a degree of this type?	X Yes No	Yes No	Yes No
. Mo	nth/year degree g <u>ranted</u>	Month	Month	Month
		Year		Year Year Ye
Mar	with / was with at way at a whad way we desired			
IVIUI	nth/year that you <u>started</u> your degree	— — Month	Month	Month
		Year		Year Ye
Pri	imary field of study	• • •		
	eld number from list on p. 8 & 9			_
Ins	stitution name		-	
		_		
Bra	anch or city			
Sta	ate or province			
Cor	untry	USA		
	und y			
Exc	cluding those above, have you attained		If was release list the	dditional dograa(s) avantin
	y <u>additional</u> postsecondary degrees? s a master's degree a prerequisite for	Yes No	institution(s), and ye	e additional degree(s), grantin ears.
adn	mission to your doctoral program?	Yes No	Degree Type	
. In v	what month and year did you first ter graduate school in <u>any</u> program	Month	Degree Field	
or c	capacity, in <u>any</u> university?	Year	Field Number, p. 8 & 9 Month/Year Granted	
	w many years were you:	iedi	Institution	
fo	aking courses or preparing for exams or this doctoral degree (including a		Branch or City	
	naster's degree, if that was part of your doctoral program)?	Years (round to whole years)	State or Country	
b. w	vorking on your dissertation after	The state of the s	Degree Type	
	coursework and exams (non-course related preparation, writing and defense)?	Years (round to whole years)	Degree Field	
	s there any time from the year you			
the	ered your doctoral program and award of your doctorate that you		Month/Year Granted Institution	
(tha	re not working on your degree at is, not taking courses or		D 1 0'1	
wor	rking on your dissertation)?	Yes No		
If v	ves, please provide the number of years	Years (round to whole years)	If the	ere are more than two degrees, additional degree.

Part B - POSTGRADUATION PLANS 1. In what country or state do you intend to live after graduation (within the next year)? 0 in U.S. State 1 not in U.S. State 2 No you intend to take a "postdoc" position? A yostdoc" is a temporary position primarily for graining additional education and training in research, usually awarded in academe. Notation of the things of the second primarily for graining additional education and training in research, usually awarded in academe. Notation of the things of the second primarily for graining additional education and training in research, usually awarded in academe. Notation of the things of the second primarily for graining additional education and training in the status of your postgraduate plans (in the next year)? Mark (A) one 1 Have signed contract or made definite commitment for a "postdoc" or other work. 4 Other full-time degree program (e.g., ND, DOS, D, MBA etc.) 5 De not plan to work or study (e.g., family commitments, etc.) 6 Other - Specify 4. What best describes your (within the next year) postgraduate plans? Mark (A) one **Postdoc" fellowship — 1 "Postdoc" fellowship — 2 Trainieship — 3 Intern, clinical residency — 4 Other Training - Specify EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment - Specify 8 Training — 1 Not tor profit organization and geographic location where you will work or study. 8 Name — 1 Name — 1 Name — 1 Name — 1 Nat to profit organization and geographic location where you will work or study.	l. Did you earn college credit from a community or two- year college?	A15. Are you earning, or have you earned, an MD or a DDS?
1. In what country or state do you intend to live after graduation (within the next year)? 0	1 Yes 2 No	1 Yes 2 No
graduation (within the next year)? 0 in U.S. — State 1 not in U.S. — Country 2 Do you intend to take a "postdoc" position? (A "postdoc" is a temporary position primarily for gaining additional education and training in research, usually awarded in academe, indiasty, or gavernment.) 1 Yes 2 No 3. What is the status of your postgraduate plans (in the next year)? Mark (X) one 0 Returning to, or continuing in, predictoral employment 1 Have signed contract or made definite commitment for a postboc' or other work. 2 Negetiating with one or more specific organizations 3 Seeking position but have no specific prospects 4 Other full-time degree program (e.g., M.D.DS. D. M&A, etc.) 5 Do not plan to work or study (e.g., family commitments, etc.) 6 Other - Specify 4. What best describes your (within the next year) postgraduate plans? Mark (X) one **POSTDOC" OF URITHER TRAINING 0 "Postdoc" research associateship 2 Traineship 3 Intern, clinical residency 4 Other Flaining - Specify EMPLOYMENT EMPLOYMENT EMPLOYMENT EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment- Specify 87. Please name the organization and geographic location where you will work or study. Name **POSTDOC*** Please name the organization and geographic location where you will work or study. Name **POSTDOC** PRIVATE SECTOR (other than education institution) 1 Was called the provided of the profit of the	Part B - POSTGRADUATION	PLANS
1 mot in U.S.—Country A 'postation' is a temporary position primarily for gaining additional education and training in research, usually awarded in academe, industry, or government.] 1 Yes 2 No 3. What is the status of your postgraduate plans (in the next year)? A 'postation' and training in predoctoral employment a "postded" or order work A 'mark (X) one 1 Have signed contract or made definite commitment for a "postded" or order work 2 Negotiating with one or more specific organizations as Seeking position but have no specific prospects 4 Other full-time degree program (e.g., MD, DOS, JD, MBA, etc.) 5 Do not plan to work or study (e.g., family commitments, etc.) 6 Other - Specify 5 What type of principal employer will you be working for (or training with) in the next year? Mark (X) one "Postdoo" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify 1 Unknown 86. What type of principal employer will you be working for (or training with) in the next year? Mark (X) one "Postdoo" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify 1 What best describes your (within the next year) Dostgraduate plans? Mark (X) one "Postdoo" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify 10 U.S. local government 10 U.S. state government 11 Net for profit organization 12 Industryous inexs 2 College or university of the than private foundation or college 5 Foreign government 6 Other - Specify 7 Unknown 86. What type of principal employer will you be working for (or training with) in the next year? Mark (X) one EDUCATION 1 Unknown 10 Unknown 10 Unknown 11 Unknown 12 Unknown 13 Unknown 14 Unknown 15 Unknown 16 Other - Specify 10 Unknown 16 Other - Specify 10 Unknown 10 Unknown 11 Unknown 12 Unknown 13 Unknown 14 Unknown 15 Unknown 16 Other - Specify 10 Unknown 10 Unknown 11 Unknown 12 Unknown 13 Unknown 14 Unknown 15 Unknown 16 Other - Specify 10	graduation (within the next year)?	your "postdoc" or further training within the next year? Mark (X) one
2. Do you intend to take a "postdoc" position? A"postfor." is temporary position primarily for gaining additional education and training in research, usually awarded in academe, industry, or government. 1	1 not in U.S.—➤ Country	
(A "postdoc" is a temporary position primarily for gaining additional education and training in research, usually awarded in academe, industry, or government.) 1	. Do you intend to take a "postdoc" position?	
industry, or government.] 1	(A "postdoc" is a temporary position primarily for gaining additional	
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Mark (X) one Returning to, or continuing in, predoctoral employment Have signed contract or made definite commitment for a "postdoc" or other work.		other - opcomy
B6. What type of principal employer will you be working for (or training with) in the next year? Negotiating with one or more specific organizations Seeking position but have no specific prospects Other full-time degree program (e.g., MD, DDS, JD, MBA, etc.) Other - Specify What best describes your (within the next year) postgraduate plans? Mark (X) one "Postdoc" research associateship Traineeship Intern. clinical residency Other Training - Specify What postdoc" or further training Military service Military service Military service Military service The postdoc" or further training Military service The postdoc or of the train in postdoc or further training Military service The postdoc or of the postdoc or further training Mark (X) one EDUCATION SKIP Los. 4. Sever college or university other than medical school (including university-affiliated hospital or medical or secondary school or school syste foreign educational institution SOVERNMENT (other than education institution) Foreign government U.S. local government U.S. local government U.S. local government Self-employed Under training with) in the next year? Mark (X) one EDUCATION U.S. 4. Year college or university other than medical school (including university-affiliated hospital or medical or secondary school or school syste foreign educational institution GOVERNMENT (other than education institution) Foreign government U.S. local government U.S. local government U.S. local government Self-employed Under - Specify What is postdoc or other than education institution) SKIP U.S. developed or university of the than medical school (including university-affiliated hospital or medical or u.S. et u.S. effect government U.S. community or two-year college U.S. medical school (including university-affiliated hospital or medical or u.S. effect government U.S. community or two-year college U.S. effect government U.S. local gover		
Have signed contract or made definite commitment for a "postdoc" or other work. 2	Returning to or continuing in predoctoral employment ———	7 Unknown
a "postdoc" or other work 2	u	B6. What type of principal employer will you be working
Seeking position but have no specific organizations Seeking position but have no specific prospects Other full-time degree program (e.g., MD, DDS, JD, MBA, etc.) Do not plan to work or study (e.g., family commitments, etc.) What best describes your (within the next year) postgraduate plans? Mark (X) one "PostDoc" OR FURTHER TRAINING "Postdoc" research associateship Traineeship Intern, clinical residency Other Training - Specify EMPLOYMENT EMPLOYMENT Employment (other than "postdoc" or further training) Military service The Employment (other than "postdoc" or further training) Military service The Employment Specify EMPLOYMENT SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name Name Name What best describes your (within the next year) U.S. day are college or university other than medical school U.S. deyer college or university other than medical school U.S. deyer college or university other than medical school U.S. community or two-year college U.S. community of two-year college U.S. community of two-year college U.S. cleaf government U.S. stategovernment		
3 Seeking position but have no specific prospects 4 Other full-time degree program (e.g., MD, DDS, JD, MBA, etc.) 5 Do not plan to work or study (e.g., family commitments, etc.) 6 Other - Specify 4. What best describes your (within the next year) postgraduate plans? Mark (X) one "POSTDOC" OR FURTHER TRAINING 0 "Postdoc" research associateship 1 "Postdoc" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment- Specify SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name Name Name Name Name Name Name Nam	Negatiating with one or more exception organizations	Mark (X) one
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Do not plan to work or study (e.g., family commitments, etc.) Other - Specify 4. What best describes your (within the next year) postgraduate plans? Mark (X) one "PostDoc" OR FURTHER TRAINING "Postdoc" research associateship Traineeship Intern, clinical residency Other Training - Specify EMPLOYMENT Employment Employment (other than "postdoc" or further training) Military service To Other Employment- Specify Discrimination of the content o	A Other full time degree program (e.g. MD DDC ID MDA etc.)	
4. What best describes your (within the next year) postgraduate plans? Mark (X) one "POSTDOC" OR FURTHER TRAINING "Postdoc" research associateship Traineeship Intern, clinical residency Other Training - Specify Military service Temployment (other than "postdoc" or further training) Military service Tother Employment- Specify C1 3 U.S. university-affiliated research institute 4 U.S. community or two-year college 5 U.S. preschool, elementary, middle, secondary school or school syste Foreign educational institution) 7 Foreign educational institution) 7 Foreign government 8 U.S. federal government 9 U.S. state government 10 U.S. local government PRIVATE SECTOR (other than education institution) 11 Not for profit organization 12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify B7. Please name the organization and geographic location where you will work or study. Name Name	70	P 2 U.S. medical school (including university-affiliated hospital or medical cells)
4. What best describes your (within the next year) postgraduate plans? Mark (X) one "POSTDOC" OR FURTHER TRAINING 0 "Postdoc" fellowship 1 "Postdoc" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify EMPLOYMENT EMPLOYMENT Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment- Specify 4 U.S. preschool, elementary, middle, secondary school or school syste 6 Foreign educational institution 6 OVERNMENT (other than education institution) 7 Foreign government 8 U.S. federal government 9 U.S. local government 10 U.S. local government 11 Not for profit organization 12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify B7. Please name the organization and geographic location where you will work or study. Name		U.S. university-affiliated research institute
4. What best describes your (within the next year) postgraduate plans? Mark (X) one "POSTDOC" OR FURTHER TRAINING 0 "Postdoc" fellowship 1 "Postdoc" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment- Specify 6 Foreign educational institution GOVERNMENT (other than education institution) 7 Foreign government 8 U.S. federal government 9 U.S. state government 10 U.S. local government 11 Not for profit organization 12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify 87. Please name the organization and geographic location where you will work or study. Name Name	Care Care Control of Care Care Care Care Care Care Care Care	
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"POSTDOC" OR FURTHER TRAINING "Postdoc" fellowship "Postdoc" research associateship Traineeship Intern, clinical residency Other Training - Specify EMPLOYMENT Employment (other than "postdoc" or further training) Military service Other Employment- Specify SKIP Other Employment- Specify ### Companies of the Companies		GOVERNMENT (other than education institution)
 "Postdoc" fellowship————————————————————————————————————	Mark (X) one	7 Foreign government
1 "Postdoc" research associateship 2 Traineeship 3 Intern, clinical residency 4 Other Training - Specify EMPLOYMENT 5 Employment (other than "postdoc" or further training) 6 Military service 7 Other Employment- Specify SKIP 7 Other Employment- Specify 10 U.S. local government PRIVATE SECTOR (other than education institution) 11 Not for profit organization 12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify B7. Please name the organization and geographic location where you will work or study. Name	"POSTDOC" OR FURTHER TRAINING	8 U.S. federal government
Traineeship Intern, clinical residency Other Training - Specify EMPLOYMENT Employment (other than "postdoc" or further training) Military service Other Employment- Specify SKIP TO B6 PRIVATE SECTOR (other than education institution) 11 Not for profit organization 12 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify B7. Please name the organization and geographic location where you will work or study. Name		9 U.S. state government
Intern, clinical residency Other Training - Specify TO B5 Industry or business (for profit) OTHER EMPLOYMENT Employment (other than "postdoc" or further training) Military service Other Employment- Specify SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name Name	"Postdoc" research associateship	10 U.S. local government
Other Training - Specify EMPLOYMENT Employment (other than "postdoc" or further training) Military service Other Employment- Specify SKIP TO B6 B5 Industry or business (for profit) OTHER 13 Self-employed 14 Other - Specify SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name	·	PRIVATE SECTOR (other than education institution)
EMPLOYMENT 5	B5	Not for profit organization
EMPLOYMENT 5	4 Other Training - Specify	12 Industry or business (for profit)
EMPLOYMENT 5		OTHER
Employment (other than "postdoc" or further training) Military service Other Employment- Specify SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name Name	FMDI OVMENT	13 Self-employed
Military service Other Employment- Specify SKIP TO B6 B7. Please name the organization and geographic location where you will work or study. Name		14 Other - Specify
Other Employment- Specify B6 B7. Please name the organization and geographic location where you will work or study. Name	, , , ,	
B6 B7. Please name the organization and geographic location where you will work or study. Name		P
State (if U.S.)		Name
State (II U.S.)		
Country (if not U.S.)		

B8. What will be your basic annual salary for this principal job (in the next year)? Do not include bonuses or additional compensation for summertime teaching or research. If you are not salaried, please estimate your earned income. S	B10.What will be your primary and secondary work activities? Mark (X) one in each column a PRIMARY b SECONDARY Research and development 1 1 Teaching 2 2 Management or administration 3 3 Professional services to individuals 4 4 Other - Specify 5 5
Part C - BACKGROUND INFO C1. Are you - 1 Male 2 Female C2. What is your marital status?	RMATION C4. What is the highest educational attainment of your mother and father? Mark (X) one for each parent a MOTHER b FATHER
Mark (X) one 1	Less than high/secondary school graduate 1 High/secondary school graduate 2 Some college 3 Bachelor's degree 4 Master's degree 5 (e.g., MA, MS, MBA, MSW, etc.) Professional degree 6 (e.g., MD, DDS, JD, D.Min, Psy.D., etc.) Research doctoral degree 7 Not applicable 8 C5. What is your place of birth? State (if U.S.) OR Country (if not U.S.) C6. What is your date of birth? Month Day Year 1 9

C7. What is your citizenship status?	C14. What is your racial background?			
Mark (X) one	Mark (X) one or more			
U.S. CITIZEN	a American Indian or Alaska Native			
0 Since birth SKIP				
1 Naturalized C9	Create tribal offiliation(a)			
NON-U.S. CITIZEN	Specify tribal affiliation(s)			
2 With a Permanent U.S. Resident Visa ("Green Card") — GO	b Native Hawaiian or other Pacific Islander			
3 With a Temporary U.S. Visa — C8	c Asian			
C8. (If a non-U.S. citizen)	d Black or African-American			
Of which country are you a citizen?	e White			
	C15. Please fill in the last four digits of your Social Security Number.			
Specify country of present citizenship	x x x - x x -			
C9. In what state or country was the high school/secondary school that you last attended?	C16. In case we need to clarify some of the information			
State (if U.S.)	you have provided, please list an e-mail address and			
OR	telephone number where you can be reached.			
Country (if not U.S.)				
C10. Are you a person with a disability?	E-mail Address			
1 Yes → GO TO C11	Daytime or Cell Telephone			
2 No → SKIP TO C12	C17. Please provide your address and the name and			
C11. Which of the following categories describes your	address of a person who is likely to know where you			
disability(ies)?	can be reached.			
Mark (X) one or more	YOUR CURRENT ADDRESS:			
a Blind/Visually Impaired				
b Deaf/Hard of Hearing	Street Address			
c Physical/Orthopedic Disability				
d Learning/Cognitive Disability	City/State/Country/Zip or Postal Code			
e Vocal/Speech Disability	CURRENT ADDRESS OF A PERSON WHO IS LIKELY TO KNOW WHERE YOU CAN BE REACHED:			
f Other - Specify				
	Name			
C12. Are you Hispanic or Latino?				
1 Yes ──➤ GO TO C13	Street Address			
	011/01/1/02 1/17 D. 1/10 1			
2 No → SKIP TO C14	City/State/Country/Zip or Postal Code			
C13. Which of the following best describes your Hispanic origin or descent?	The results of this survey will be published in a Summary			
Mark (X) one	Report; the Summary Reports on earlier surveys are available at			
	http://www.norc.uchicago.edu/issues/docdata.htm.			
1 Mexican or Chicano 2 Puerto Rican	Please use the back cover to make any additional comments you may have about this survey.			
3 Cuban	Thank you for completing the questionnaire. Please return			
4 Other Hispanic - Specify	this questionnaire to your GRADUATE SCHOOL for			
Canal Inspanie Opening	forwarding to Survey of Earned Doctorates, NORC at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602.			
	If you have questions or concerns about the survey, you may contact us by e-mail at 4800-sed@norc.uchicago.edu or phone at 1-800-248-8649.			



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	SINESS MANAGEMENT/ADMINIST			0.05	
905 910 915 901	Accounting Banking/Financial Support Services Business Administration & Management Business/Managerial Economics Finance Human Resources Development	916 920 917 930	International Business/Trade/Commerce Marketing Management & Research Management Information Systems/Business Statistics Operations Research (also in ENGINEERING & in MATHEMATICS)	935 938 939	Organizational Behavior (see also PSYCHOLOGY/Industrial & Organizational) Business Management/Administration, General Business Management/Administration, Other
_	MMUNICATION				
	Communication Research Communication Theory		Film, Radio, TV & Digital Communication Mass Communication/Media Studies		Communication, General Communication, Other
CO	MPUTER & INFORMATION SCIEN	CES			
	Computer Science		Information Science & Systems	419	Computer & Information Science, Other
ED	UCATION		,		
	EARCH & ADMINISTRATION				
840 800 805	Counseling Education/Counseling & Guidance Curriculum & Instruction Educational Administration & Supervision Educational Assessment/Testing/Measurement	807	Educational/Instructional Media Design Educational Leadership Educational Psychology (also in PSYCHOLOGY) Educational Statistics/Research Methods	845 825 830 835	Higher Education/Evaluation & Research School Psychology (also in PSYCHOLOGY) Social/Philosophical Foundations of Education Special Education
ΓΕΑ: 358	CHER EDUCATION Adult & Continuing Teacher Education Elementary Teacher Education	850	Pre-elementary/Early Childhood Teacher Education	856	Secondary Teacher Education
TEA 360 361 362 364 370	CHING FIELDS Agricultural Education Art Education Business Education English Education Family & Consumer/Human Science (also in Fields Not Elsewhere Classified)	866 868 874 876 878 880	Foreign Languages Education Health Education Mathematics Education Music Education Nursing Education Physical Education & Coaching	882 884 885 888 889	Reading Education Science Education Social Science Education Trade & Industrial Education Teacher Education & Professional Development, Other
	IER EDUCATION Education, General	899	Education, Other		
	GINEERING				
303 306 309 312 315 318 321	Aerospace, Aeronautical & Astronautical Engineering Agricultural Engineering Bioengineering & Biomedical Engineering Ceramic Sciences Engineering Chemical Engineering Civil Engineering Communications Engineering Computer Engineering Electrical, Electronics & Communications Engineering	376 327 330 333 336 339 342 345 345 348	Engineering Management & Administration Engineering Mechanics Engineering Physics Engineering Science Environmental Health Engineering Industrial & Manufacturing Engineering Materials Science Engineering Mechanical Engineering Metallurgical Engineering Mining & Mineral Engineering	357 360 363 366 369 372 398 399	Nuclear Engineering Ocean Engineering Operations Research (also in MATHEMATICS & in BUSINESS MANAGEMENT) Petroleum Engineering Polymer & Plastics Engineering Systems Engineering Engineering, General Engineering, Other
HU	JMANITIES				
706 700	FORY African History American History (U.S. & Canada) Asian History	705 710 707	European History History, Science & Technology & Society Latin American History	708 718 719	Middle/Near East Studies History, General History, Other
768 758 740	EIGN LANGUAGES & LITERATURE Arabic Chinese French German	762	Italian Japanese Russian		Slavic (other than Russian) Spanish Other Languages & Literature
732 720 723	TERS American Literature (U.S. & Canada) Classics Comparative Literature Creative Writing	734 733 724	English Language English Literature (British & Commonwealth) Folklore	736 738 739	Speech & Rhetorical Studies Letters, General Letters, Other
770 773 776 792 795	IER HUMANITIES American/U.S. Studies Archaeology Art History/Criticism/Conservation Bible/Biblical Studies Drama/Theater Arts	780 786 787 788 789	Music Music Theory & Composition Music Performance Musicology/Ethnomusicology Music, Other	785 790 798 799	Philosophy Religion/Religious Studies Humanities, General Humanities, Other
LIF	FE SCIENCES				
005 000 025 020 010 014 019	ICULTURAL SCIENCES/NATURAL RESOURCE Agricultural Animal Breeding Agricultural Economics Agricultural & Horticultural Plant Breeding Agronomy & Crop Science Animal Nutrition Animal Science, Poultry (or Avian) Animal Science, Other Environmental Science	055 043 044 066 070 079 050 074	Fishing & Fisheries Sciences/Management Food Science Food Science & Technology, Other Forest Sciences & Biology Forest/Resources Management Forestry & Related Science, Other Horticulture Science Natural Resources/Conservation	030 039 046 049 080 072 098 099	Plant Pathology/Phytopathology (also in BIOLOGICAL SCIENCES) Plant Sciences, Other Soil Chemistry/Microbiology Soil Sciences, Other Wildlife/Range Management Wood Science & Pulp/Paper Technology Agriculture, General Agricultural Science, Other

BIOLOGICAL/BIOMEDICAL SCIENCES				
30 Anatomy 10 Bacteriology 00 Biochemistry (see also PHYSICAL SCIENCES/ Chemistry, other) 02 Bioinformatics 03 Biomedical Sciences 33 Biometrics & Biostatistics 05 Biophysics (also in PHYSICS) 05 Biotechnology 09 Botany/Plant Biology 100 Cancer Biology	142 139 145 148 137 170 151 157	Cell/Cellular Biology & Histology Developmental Biology/Embryology Ecology Endocrinology Entomology Evolutionary Biology Genetics/Genomics, Human & Animal Immunology Microbiology Molecular Biology Neurosciences Nutrition Sciences	175 180 185 115 120 125 169 189 198	Parasitology Pathology, Human & Animal Pharmacology, Human & Animal Physiology, Human & Animal Plant Genetics Plant Pathology/Phytopathology (also in AGRICULTURAL SCIENCES) Plant Physiology Toxicology Zoology Biology/Biomedical Sciences, General Biology/Biomedical Sciences, Other
HEALTH SCIENCES 10 Environmental Health 11 Environmental Toxicology 20 Epidemiology 12 Health Systems/Services Administration 22 Kinesiology/Exercise Science	215	Medicinal/Pharmaceutical Sciences Nursing Science Public Health Rehabilitation/Therapeutic Services	250 298	Speech-Language Pathology & Audiology Veterinary Sciences Health Sciences, General Health Sciences, Other
MATHEMATICS				
25 Algebra 30 Analysis & Functional Analysis 20 Applied Mathematics 60 Computing Theory & Practice 35 Geometry/Geometric Analysis	445	Logic Number Theory Operations Research (also in ENGINEERING & in BUSINESS MANAGEMENT/ADMIN.)	455 498	Statistics (also in SOCIAL SCIENCES) Topology/Foundations Mathematics/Statistics, General Mathematics/Statistics, Other
PHYSICAL SCIENCES				
ASTRONOMY 00 Astronomy	505	Astrophysics		
ATMOSPHERIC SCIENCE & METEOROLOGY 10 Atmospheric Chemistry & Climatology 12 Atmospheric Physics & Dynamics	514	Meteorology Atmospheric Science/Meteorology, General	519	Atmospheric Science/Meteorology, Other
CHEMISTRY 20 Analytical Chemistry 22 Inorganic Chemistry 26 Organic Chemistry		Physical Chemistry Polymer Chemistry Theoretical Chemistry		Chemistry, General Chemistry, Other (see also BIOLOGICAL/Biochemistry
GEOLOGICAL & EARTH SCIENCES 42 Geochemistry 40 Geology 52 Geomorphology & Glacial Geology	544 548 546	Geophysics & Seismology Mineralogy & Petrology Paleontology	558	Stratigraphy & Sedimentation Geological & Earth Sciences, General Geological & Earth Sciences, Other
DCEAN/MARINE SCIENCES 85 Hydrology & Water Resources 90 Oceanography, Chemical & Physical	595 599	Marine Sciences Ocean/Marine, Other		
PHYSICS 60 Acoustics 76 Applied Physics 61 Atomic/Molecular/Chemical Physics 65 Biophysics (also in BIOLOGICAL SCIENCES)	568 569	Condensed Matter/Low Temperature Physics Nuclear Physics Optics/Photonics Particle (Elementary) Physics	572 578	Plasma/Fusion Physics Polymer Physics Physics, General Physics, Other
PSYCHOLOGY				
00 Clinical Psychology 03 Cognitive Psychology & Psycholinguistics 06 Comparative Psychology 09 Counseling 12 Developmental & Child Psychology 18 Educational Psychology (also in EDUCATION)	620 613 621	Experimental Psychology Family Psychology Human Development & Family Studies Industrial & Organizational (see also BUSINESS MANAGEMENT/Organization Behavior) Personality Psychology	633 636 639 648	Physiological/Psychobiology Psychology Psychometrics & Quantitative Psychology School Psychology (also in EDUCATION) Social Psychology Psychology, General Psychology, Other
SOCIAL SCIENCES				
50 Anthropology 52 Area/Ethnic/Cultural/Gender Studies 53 Criminal Justice & Corrections 54 Criminology 65 Demography/Population Studies 66 Econometrics	670 674 676 678	Economics Geography International Relations/Affairs Linguistics Political Science & Government Public Policy Analysis	690 694 695 698	Sociology Statistics (also in MATHEMATICS) Urban Affairs/Studies Urban/City, Community & Regional Planning Social Sciences, General Social Sciences, Other
FIELDS NOT ELSEWHERE CLASSIFIE	D (N	EC)		
60 Architecture/Environmental Design 64 Family/Consumer Science/Human Science (also in EDUCATION) 68 Law	974 976	Library Science Parks/Sports/Rec./Leisure/Fitness Public Administration Social Work	984 989	Theology/Religious Education (see also OTHER HUMANITIES/Religion/Religious Studies) Other Fields, NEC

To the Doctorate Recipient:

Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agencies-listed on the cover-sponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey. If you have any comments about the survey, please provide them in the space below.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.

Best wishes,

Dr. Lynda T. Carlson **National Science Foundation**

Comments about the survey:

	(continued)	STIONS
I	Name of Field	
ı	Number of Field	
- 1	Name of Field	
1	Number of Field	
A9.	(continued)	
	Degree Type	
	Degree Field	
Field	Number, p. 8 & 9	
Mon	th/Year Granted	
	Institution	
	Branch or City	
	State or Country	
	Degree Type	
	Degree Field	
Field	Number, p. 8 & 9	
Mon	th/Year Granted	
	Institution	
	Branch or City	
5	State or Country	

ADDITIONS TO OUTSTIONS

Please return this questionnaire to your GRADUATE SCHOOL for forwarding to: Survey of Earned Doctorates, NORC at the University of Chicago, 1 N. State Street, Floor 16, Chicago, IL 60602. If you have questions or concerns about the sur vey, you may contact us by e-mail at 4800-sed@norc.uchicago.edu or phone 1-800-248-8649.

OFFICE USE ONLY										
Case ID:	Instit. Code:		Grad Date:		Main Disp.:					
PROCESSING										
Receipt		Edi	CADE							
Initials	Date	Initials	Date		tials	Date				
Ver. Adjust		Retr	Updates							
Initials	Date	Initials	Date	Init	tials	Date				

